

Anexa A.3.7 - Liste de lucrări cadre didactice

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI

FACULTATEA DE INGINERIE ELECTRICĂ, ENERGETICĂ ȘI INFORMATICĂ APLICATĂ

Domeniul de licență: INGINERIE ELECTRICĂ

Programul de studii: **INFORMATICĂ APLICATĂ ÎN INGINERIE ELECTRICĂ**

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Nr. crt.	Grad didactic	Nume și prenume
1.	conf. dr. ing.	Albu Mihai
2.	as. drd. ing.	Anton Mihăiță Emanuel
3.	ș.l. dr. ing.	Antonescu Ion
4.	lect. dr. fiz.	Apreotesei Gabriela
5.	conf. dr. ing.	Arădoaei Mihaela
6.	prof. dr. ing.	Arădoaei Sebastian Teodor
7.	conf. dr. ing.	Asimincesei Oana Maria
8.	ș.l. dr. ing.	Baciu Alina Georgiana
9.	lect. dr.	Baciu Ioana
10.	conf. dr. fiz.	Băcăiță Simona
11.	prof. dr. ing.	Benchea Marcelin
12.	conf. dr. ing.	Brînzilă Marius
13.	conf. dr. mat.	Burlică Monica
14.	prof. dr. ing.	Burlică Radu
15.	lect. dr.	Butnariu Anca Mihaela
16.	conf. dr. ing.	Butnicu Dan
17.	ș.l. dr. ing.	Căileanu Corneliu
18.	as. dr. mat.	Ceucă Răzvan
19.	prof. dr. ing.	Ciobanu Romeo Cristian
20.	prof. dr. ing. mat.	Condurache Daniel
21.	conf. dr. ing. inf.	Damian Cătălin
22.	prof. dr. ing.	David Valeriu
23.	as. drd. ing.	Dobos Ioan
24.	dr. fil.	Dudeanu Mihaela
25.	dr. ing.	Filip Tudor-Alexandru
26.	prof. dr. ing.	Fosalău Cristian
27.	as. dr. ing.	Gabor Georgel
28.	prof. dr. ing.	Haba Cristian Győző
29.	ș.l. dr. ing.	Hariton Anamaria
30.	ș.l. dr. ing.	Ignătescu-Manea Irina
31.	conf. dr. ing.	Ivanov Ovidiu
32.	conf. dr. ing.	Luncă Costel Eduard
33.	drd. ing.	Mitocaru Alexandru
34.	conf. dr. ing.	Munteanu Adrian
35.	lect. dr. fiz.	Nechifor Cristina-Delia
36.	conf. dr. ing.	Niță Lucian
37.	prof. dr. ing.	Olariu Marius Andrei
38.	ș.l. dr. ing.	Pavel Ionel
39.	conf. dr. ing.	Păuleț Marius-Valerian
40.	ș.l. dr. ing.	Petrișor Daniel
41.	as. drd. ing.	Pingescu Bogdan
42.	prof. dr. ing.	Poboroniuc Marian
43.	prof. dr. ing.	Prisăcaru Gheorghe
44.	as. drd. ing.	Sălceanu Andrei
45.	dr. ing.	Sălcianu Monica
46.	ș.l. dr. ing.	Scarlatache Vlad

Nr. crt.	Grad didactic	Nume și prenume
47.	prof. dr. ing.	Schreiner Cristina Mihaela
48.	ș.l. dr. ing.	Simionescu Ramona
49.	ș.l. dr. ing. mat.	Sfartz Eugen
50.	conf. dr. ing.	Stamate Ciprian
51.	ș.l. dr. ing.	Sticea Daniel
52.	lect. dr.	Stirbu Ioan
53.	conf. dr. mat.	Tărniceriu Carmen Oana
54.	prof. dr. ing.	Temneanu Marinela Costel
55.	ș.l. dr. ing.	Temneanu Mitică
56.	conf. dr. ing.	Trandabău Alexandru
57.	ș.l. dr. ing.	Ursache Silviu
58.	prof. dr. ing.	Varvara Viorel
59.	as. dr. ing.	Vornicu Silviu-Constantin
60.	prof. dr. ing.	Zet Cristian

Lista de lucrări în domeniul de studii universitare de licență: **Inginerie Electrică**

Conf.dr.ing. **Mihai ALBU**

A. Teza de doctorat.- Titlul și anul susținerii, specializarea, locul susținerii

Contribuții la conducerea sistemelor de acționari electrice cu turație redusă

Domeniu: Inginerie electrică, Locul susținerii: Universitatea Tehnică „Gh. Asachi” Iași, 2.02.2001. Diplomă: Seria B, Nr.0004250, Eliberată de Ministerul Educației Naționale.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Livint Gh., Horga V., Ratoi M., **Albu M.**, *Control of Hybrid Electrical Vehicles*, pp. 41-67, capitol în cartea *ELECTRIC VEHICLES Modelling and Simulations*, Editata de Seref Soylu, Editura INTECH, 2011, ISBN 978-953-307-477-1, 26 pagini.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCISIS (sau CNCS).

1. **M. Albu**, *Electronică de putere – vol I: Noțiuni introductive, dispozitive, conversia statică alternativ-continuu a energiei electrice*, Casa de Editură “Venus” (Editură recunoscută CNCISIS), Iași, 2007, ISBN 973-756-003-5, 388 pagini.
2. **M. Albu**, M. Diaconescu, R. Bojoi, *Comanda semiconductoarelor de putere, convertoare statice cu comutație naturală – Îndrumar laborator electronică de putere*, Casa de Editură “Venus” (Editură recunoscută CNCISIS), Iași, 2008, ISBN 978-973-756-073-5, 234 pagini.
3. Gh. Livinț, R.Gaiginschi, V.Horga, R.Drosescu, G.Chiriac, **M.Albu**, M.Rățoi, I.Damian, M.Petrescu, *Vehicule electrice hibride*, Casa de Editură “Venus” (Editură recunoscută CNCISIS), Iași, 2006, 535 pagini, ISBN 973-756-002-7.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. **M. Albu** – *Îndrumar laborator electronică de putere*, publicat pe pagină web: www.euedia.tuiasi.ro/ep_lab, 24 lucrări laborator, 430 pagini, actualizat 2024.
2. **M. Albu** – *Convertoare statice de putere I*, suport curs încărcat pe platforma Microsoft Teams, 2021, 106 pagini.
3. **M. Albu** – *Convertoare statice de putere II*, suport curs încărcat pe platforma Microsoft Teams, 2021, 78 pagini.
4. **M. Albu** – *Sisteme electronice de putere*, suport curs încărcat pe platforma Microsoft Teams, 2021, 113 pagini.
5. **M. Albu** – *Acționări electrice I*, suport curs încărcat pe platforma Microsoft Teams, 2022, 145 pagini.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. Gh.Livinț, V.Horga, D. Sticea, M.Rățoi and **M.Albu**, *Hybrid Electric Vehicle Model with CAN Network Real time Control*, Advances in Electrical and Computer Engineering, Nr.2, 2010, ISSN:1582-7445, pp.102-107 (**Indexat Web of Science, Scopus**).
2. V.Horga, D.Lucache, M.Rățoi, A. Simion, **M.Albu**, *Control of an Interior PM Synchronous Machine for Operating as Integrated Starter-Generator*, în *Mathematical Methods and Computational Techniques in Research and Education*, Ed. WSEAS Press (www.wseas.org), ISBN: 978-960-6766-02-2, ISSN: 1790-5117, pp. 194-199.
3. Horga, V., Lucache, D., Rățoi, M., Simion, A., Albu, M., *Robust Control Strategy to Parameter Variations for an Interior PM Synchronous Machine*, WSEAS Transactions on Systems and Control, 3(5), pp. 453-462, 2008, (**Indexat Scopus**).
4. Gh. Livinț, V.Horga, **M. Albu**, M.Rățoi, *Evaluation of Control Algorithms for Hybrid Electric Vehicles*, WSEAS Transaction on Systems, Issue 1, Volume 6, January 2007, ISSN 1109-2777, pp.133-140, (**Indexat Inspec și Compendex**)
5. V. Horga, **M. Albu**, M Rățoi and C. Boțan, *Autonomous Induction Generator Voltage Control*, WSEAS Transaction on Power Systems, Issue 5, Volume 1, May 2006, ISSN 1790-5060, pp.774-779. (**Indexat Inspec**)

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

1. V.Horga, D.D.Lucache, **M.Albu**, *Grey-Box Direct Identification of PMBDC Electrical Machine Parameters Based on Continuous-Time Model*, Conferința Națională de Acționări Electrice, Ediția a XVIII-a, Cluj-Napoca, 13-14 octombrie 2016, Acta Electrotehnica 57 (2016).
2. Sticea D., Livinț Gh., **Albu M.**, *DC-DC Converter Structure for Energy Management on (Hybrid) Electric Vehicle*, Buletinul AGIR, Anul XVII, nr.4, octombrie-decembrie 2012, ISSN 1224-7928, pp.207-211 (**Indexat în Copernicus**).
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5. Gh.Livinț, V.Horga, **M.Albu**, M.Rățoi, *Control Strategies for Hybrid Electric Vehicles*, Buletinul Institutului Politehnic Iași, Tomul LII (LVI), Fasc.5, 2006, ISSN:1223-8139, pp.553-562.
6. **M. Albu**, D. Lucache, M Rățoi, V. Horga, *Flexible Power MOSFET Topology for the Automotive DC-DC Converters Study*, Buletinul Institutului Politehnic Iași, 2005, Tomul LI(LV), Fasc. 5, Electrotehnică, Energetică, Electronică, ISSN 1223-8139, pp.217-224.

7. Gh. Livint, V. Horga, M. Ratoi, D.D. Lucache and **M. Albu**, *Prototyping Station for Electric Drivers of HEVs*, Buletinul Institutului Politehnic Iași, 2005, Tomul LI(LV), Fasc. 5, Electrotehnică, Energetică, Electronică, ISSN 1223-8139, pp.195-204.
8. Rățoi, M., Horga, V., **Albu, M.**, Diaconescu, M.P., *A DSP Implementation of DTC Method for Induction Motors*, Buletinul Institutului Politehnic Iași, 2004, Tomul L(LIV), Fasc. 5, Electrotehnică, Energetică, Electronică, ISSN 1223-8139, pp.1077-1084.
9. **Albu, M.**, Foșalău, C., Brînzilă, M., *Programmed AC Source for the Simulation of the Line Voltage Disturbances*, Buletinul Institutului Politehnic Iași, 2004, Tomul L(LIV), Fasc. 5, Electrotehnică, Energetică, Electronică, ISSN 1223-8139, pp. 939-944.
10. Rățoi, M., Horga, V., **Albu, M.**, Diaconescu M.P., *Mechatronic Load With Regenerative Capability for Electrical Drives Testing*, Buletinul Institutului Politehnic Iași, 2002, Tomul XLVIII (LII), Fasc. 5, Secția III, Electrotehnică, Energetică, Electronică, ISSN 0258-9109, pp. 215-220.
11. Horga, V., Rățoi, M., **Albu, M.**, Graur, I., *Emulator Control of Dynamic Characteristics of Mechanical Loads*, Buletinul Institutului Politehnic Iași, 2002, Tomul XLVIII (LII), Fasc. C, Secția III, Electrotehnică, Energetică, Electronică, ISSN 0258-9109, pp. 227-234.
12. **Albu, M.**, Horga, V., Rățoi, M., Caba Simona, *Mechanical Loading System for the Electrical Drive Test Rigs*, Buletinul Institutului Politehnic Iași, 2002, Tomul XLVIII (LII), Fasc. C, .Secția III, Electrotehnică, Energetică, Electronică, ISSN 0258-9109, pp.221-226.
13. Onea Al., Horga, V., **Albu, M.**, Boțan, C., *Indirect Vector Control of Induction Motor with Floating Point DSP*, Buletinul Institutului Politehnic din Iași, 2002, Tomul XLVIII (LII), Fasc. 1-4, Automatică și Calculatoare, pp. 88-98.
14. **Albu, M.**, Ratoi, M., *Low Speed Observer for Direct-Drive Systems*, Buletinul Institutului Politehnic Iași, 2000, Tomul XLVI (L), Fasc. 5, .Secția III, Electrotehnică, Energetică, Electronică, ISSN 0258-9109, pp. 169-174.
15. **Albu, M.**, Simona Caba, *Torque and Speed Ripples in Low Speed Direct Drive*, Buletinul Institutului Politehnic Iași, 2000, Tomul XLVI(L), Fasc.5, Secția Electrotehnică, Energetică, Electronică, ISSN 0258-9109, pp.266-273
16. **Albu, M.**, Foșalău, C., Bojoi, R., *Torque and Speed Ripples in Low Speed Drive Systems with Induction Motor*, Buletinul Institutului Politehnic Iași, Tomul XLV(IL), Fasc.5B, Electr otehnică, Energetică, Electronică, ISSN 0258-9109, 1999, pp. 17-20 (**Indexat Inspec**).
17. **Albu, M.**, Băluță, Gh., *Torque and Speed Ripples in DC Low Speed Drive Systems*, Buletinul Institutului Politehnic Iași, Tomul XLV(IL), Fasc.5B, Electrotehnică, Energetică, Electronică, ISSN 0258-9109, 1999, pp. 13-16 (**Indexat Inspec**).
18. Băluță, Gh., Bojoi, R., **Albu, M.**, *The Interfacing of Optical (Position) Encoder with Stepper Motors*, Development and Application System, D&AS, no. 09, ISSN 1222-7234, Suceava, 1998, pp. 235-240.
19. Graur, I., Tașcă, Gr., **Albu, M.**, Mareș, A., Horga, V., Lucache, D., *Numerical Simulation of the Stabilized Functioning Regime of Some Electrical Drive Systems Used in Metallurgical Industry*, Buletinul Institutului Politehnic Iași, Tomul XLII (XLVI), fasc. 1-2, Secția III, Electrotehnică, Energetică, Electronică, ISSN 0258-9109, 1996, pp.129-136.

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21. Diaconescu, M.P., Băluță, Gh., **Albu, M.**, Bojoi, R., *150W DC regulated Multi-Voltage Power Supply Dedicated to Electric Drives Control Microsystems*, Buletinul Institutului Politehnic Iași, Tomul XLI (XLV), fasc. 5. Secția III, Electrotehnică, Energetică, Electronică, ISSN 0258-9109, 1995, pp.715-719.
22. **Albu, M.**, Diaconescu, M., Băluță, Gh., Bojoi, R., Rățoi, M., *MOS GateDriver with Dedicated Integrated Circuits used for Driving a Half Bridge MOS Gate Semiconductor Power Device*, Buletinul Institutului Politehnic Iași, Tomul XLI (XLV), fasc. 5. Secția III, Electrotehnică, Energetică, Electronică, ISSN 0258-9109, 1995, pp.721-727.

I.(a) Lucrări științifice publicate în volumele conferințelor internaționale

1. D.A. Sticea, G. Gabor, G. Chiriac, **M. Albu** and A. Brinzei, "*DC Motor Closed Loop Speed Control Using Rapid Control Prototyping*" 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 873-876, doi: 10.1109/SIELMEN67352.2025.11260740 (**Indexat IEEEExplore**).
2. Vasile Horga, Marcel Rățoi, **Mihai Albu**, Dorin Lucache, *Unified Complex Vector Current Controller for AC Machine Drives*, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), 2018, pp. 0924 – 0931. (**Indexat IEEEExplore**).
3. Vladimir Berzan, Iurie Ermurachi, Dorin Lucache, **Mihai Albu**, *98.2% Efficiency, Low Cost, 6.6-kW AC/DC Converter for HEV/EV On-Board Charger*, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), 2018, pp. 0791 – 0796. (**Indexat IEEEExplore**).
4. Daniel Sticea, **Mihai Albu**, Gabriel Chiriac, "*Laboratory board for studying the half-bridge power electronic converters*", 2017 International Conference on Electromechanical and Power Systems (SIELMEN), pp. 506-511, DOI: 10.1109/SIELMEN.2017.8123380 50/3=16.66 (**Indexat IEEEExplore, Web of Science, Scopus**).
5. **Albu M.**, Sticea D., Fosala C. and Chiriac G., *Low-Cost Low-Power Microgrid with Photovoltaic Panels*, Proceedings of International Conference and Exposition on Electrical and Power Engineering 2014, ISSN 978-1-4799-5848-1, pp. 941-944, , DOI: 10.1109/ICEPE.2014.6970049 (**Indexat IEEEExplore, Web of Science, Scopus**)
6. Sticea D., **Albu M.** and Livint Gh., *The Bidirectional Power Exchange Using a DC/DC Converter with Coupled Inductances*, Proceedings of International Conference and Exposition on Electrical and Power Engineering 2014, ISSN 978-1-4799-5848-1, pp. 933-940, DOI: 10.1109/ICEPE.2014.6970048 (**Indexat IEEEExplore, Web of Science, Scopus**),
7. Sticea D., **Albu M.**, Livint Gh., Horga V., and Rățoi M., *An automated manual transmission solution for a hybrid electrical vehicle model*, Proceedings of the 6th International Conference on Electrical and Power Engineering, Editura PIM, vol.2, pp.II-59–II-61, ISBN 978-606-13-0078-5, 28-30 October 2010, Iasi, Romania.
8. Livint Gh., Horga V., Rățoi M., **Albu M.**, Chiriac G., *Implementing the CANopen protocol for the distributed control of a hybrid electric vehicle*, ELECTROMOTION 2009, The 8th

International Symposium on Advanced Electromechanical Motion Systems and The EPE Chapter „Electric Drives”, 1-3 July, Lille, France, CD-ISBN 978-2-915913-26-5, (**Indexat IEEEExplore, Web of Science, Scopus , Inspec**).

9. Sticea D., **Albu M.**, *Laboratory test bench for control algorithms study of the DC motor drive*, Proceedings of the 7th International Conference of Electromechanical and Power Systems, Editura PIM, 2009, vol. I, pp. 405-408, ISBN 978-606-520-617-5, October 8-9, 2009, Iași, Romania.
10. Sticea D., Livinț Gh., **Albu M.**, Chiriac G., *Experimental stand for the dynamical cycle study of the batteries used on hybrid electrical vehicle*, Proceedings of the 7th International Conference of Electromechanical and Power Systems, Editura PIM, 2009, vol. II, pp. 172-175, ISBN 978-606-520-623-6, October 8-9, 2009, Iași, Romania.
11. Livinț Gh., Horga V., Sticea D., Rățoi M., **Albu M.**, *Electrical drives control of a hybrid electric vehicle experimental model*, Proceedings of the 7th International Conference of Electromechanical and Power Systems, Editura PIM, 2009, vol. II, pp. 21-27, ISBN 978-606-520-623-6, October 8-9, 2009, Iași, Romania.
12. C. Boțan, V.Horga, **M.Albu**, M.Rățoi, *Decoupling Control of an Induction Motor Drive Supplied by a Voltage Source Inverter*, International Symposium on Signals, Circuits and Systems – International Symposium on Signals, Circuits and Systems - ISSCS 2007, Iași, Romania, 12-13 July 2007, vol.2, pp.421-424, IEEE Catalog Number 07EX1678, ISBN 1-4244-0968-3, Library of Congress 2007920356 (**Indexat IEEEExplore, Web of Science, Inspec**).
13. Gh.Livinț, M.Rățoi, V.Horga, **M.Albu**, *Estimation of Battery Parameters Based on Continuous-Time Model*, International Symposium on Signals, Circuits and Systems – International Symposium on Signals, Circuits and Systems - ISSCS 2007, Iași, Romania, 12-13 July 2007, vol.2, pp.613-616, IEEE Catalog Number 07EX1678, ISBN 1-4244-0968-3, Library of Congress 2007920356 (**Indexat IEEEExplore, Web of Science, Inspec**).
14. Boțan C., Horga V., Osatfi F., **Albu M.**, Rățoi M., *General Aspects of the Electrical Drive System Optimal Control*, CD of the 12th European Conference on Power Electronics and Applications EPE 2007, 2-5 September 2007, Aalborg, Denmark, ISBN 9789075815108 (**Indexat IEEEExplore, Web of Science, Inspec**).
15. D. Lucache, V.Horga, M.Rățoi, **M.Albu**, *Hardware-In-the-Loop Testing of an Integrated Starter Generator* - International Aegean Conference on Electric Machines, Power Electronics and Electromotion (ACEMP'07 & Electromotion'07)-Joint Conference, Bodrum, Turkey, 10.-12 September 2007, pp 363-368, ISBN 978-975-93410-2-2, Editors: Prof.dr H.Bülent Ertan, Prof.dr.Yildirim Üçtuğ (**Indexat IEEE Xplore, Web of Science**).
16. **M.Albu**, V.Horga, M.Rățoi, C. Boțan - *DC Link Voltage Control of an Induction Generator/PWM Converter System* - International Aegean Conference on Electric Machines, Power Electronics and Electromotion (ACEMP'07 & Electromotion'07)-Joint Conference, Bodrum, Turkey, 10.-12 September 2007, pp.766-769, ISBN 978-975-93410-2-2, Editors: Prof.dr H.Bülent Ertan, Prof.dr.Yildirim Üçtuğ (**Indexat IEEE Xplore, Web of Science**).
17. Lucache D., Horga V., **Albu M.**, Rățoi M., *Indirect Field Oriented Control of an Integrated Starter generator*, The 32nd Annual Conference of the IEEE Industrial Electronics Society - IECON'06, Paris – France, November 6 - 10, 2006, IEEE Catalog Number:

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18. D.Lucache, V.Horga, M.Ratoï, A.Simion, **M.Albu**, *Motoring Regime Control of an Interior Permanent Magnet Synchronous Machine*, The 6th International Conference on Electromechanical and Power Systems – Sielmen'07 – Chişinău, October, 4 - 6, 2007, (Analele Universităţii din Craiova, Seria: Inginerie Electrică, Anul 31, nr.31, 2007, Editura Universitaria, Vol.II, ISSN: 1842-4805, pp. 217-222.
19. Livinţ Gh., Horga V., **Albu M.**, Răţoi M., *Testing Possibilities of Control Structures for Hybrid Electric Vehicles*, Proceedings of the 2nd WSEAS International Conference on Dynamical Systems and Control – CONTROL'06, Bucharest, Romania, October 16-17 2006.
20. Fosalau, C., **Albu, M.**, *Teaching Electric Drives by Internet*, 5th International Conference on Electromechanical and Power Systems, Chişinău, Moldova, October 6-8, 2005, pp. 155-158.
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22. **Albu, M.**, Horga, V, Răţoi, M., *Disturbing Torque Observers for the Induction Motor Drives* Proceedings of the 9-th International Conference on Optimization of Electric and Electronic Equipments - OPTIM'04, vol. III, ISBN 973-635-228-9, Braşov, 20-21 mai 2004, pp.123-128 (**Indexat Web of Science**).
23. **Albu, M.**, *Disturbing Torque Observers for Direct-Drive Systems*, Proceedings of the 12th International Symposium on Power Electronics – Ee 2003, Novi Sad, November 5-7, 2003, paper no.T4-1.5, pp.1-5.
24. **Albu, M.**, Caba Simona, Răţoi, M., Horga, V., *IGBT Three-Phase Structure Controlled with the Intelligent Gate Drivers SKHI 22A*, Proceedings of the 4th International Conference on Electromechanical and Power Systems – SIELMEN 2003, vol. II, ISBN 9975-9771-1-1, Chişinău, September 26-27, 2003, pp.33-36.
25. Onea, A., Horga, V., Boţan, C., **Albu, M.**, *Multitime Scale Approach to Induction Motor Parameter Estimation*, Proceedings of the IEEE International Symposium on Signals, Circuits and Systems SCS 2003, vol. 1, ISBN 0-7803-7979-9, Iaşi, July 10-11, 2003, pp. 333-326, IEEE Catalog Number 03EX720 (**Indexat IEEEExplore, Web of Science, Scopus, Inspec**).
26. **Albu, M.**, Horga, V., Răţoi, M., *Induction Motor Supply in Low Speed Range by PWM Inverters*, Proceedings of the IEEE International Symposium on Signals, Circuits and Systems SCS 2003, vol. 1, ISBN 0-7803-7979-9, Iaşi, 10-11 July, 2003, pp. 325-328, IEEE Catalog Number 03EX720 (**Indexat IEEEExplore, Web of Science, Scopus, Inspec**).
27. Caba Simona, Băluţă, Gh., **Albu, M.**, *Some Aspects About the Energy Consumption During the Start of the Electrical Drives*, Proceedings of the 3rd International Conference on Electromechanical and Power Systems SIELMEN 2001, vol. I, ISBN 9975-9638-6-2, Chişinău, 4-6 oct. 2001, pp.169 –170
28. **Albu, M.**, Caba Simona, Băluţă, Gh., Papachatzis, *Low Speed Measurement in the Electrical Drive Systems*, Proceedings of the 3rd International Conference on

Electromechanical and Power Systems SIELMEN2001 , vol. I, ISBN 9975-9638-6-2, Chişinău, 4-6 oct. 2001, pp.171 –176.

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I.(b) Lucrări publicate în volumele unor conferinţe naţionale

1. Sticea D., **Albu M.**, *Tehnici active pentru îmbunătăţirea calităţii energiei electrice*, Concursul Naţional de Referate şi Comunicări ştiinţifice Ştefan Procopiu 2009, organizat de către Colegiul Naţional Cartianu în perioada 24-25 ianuarie 2009, localitatea Piatra Neamţ, Romania.
2. Lucache D., **Albu M.**, Ioachim D., *VARIANTĂ DE ALIMENTARE LA ÎNALTĂ FRECVENŢĂ A TUBURILOR FLUORESCENTE*, International Conference ILUMINAT 2005 & BALKAN LIGHT, Cluj-Napoca 2005.
3. **Albu, M.**, Caba Simona, Horga, V., *Laboratory PWM Inverter with IGBT Modules*, Proceedings of the 11th National Conference on Electrical Drives – CNAE2002, Galaţi, 2002, pp.386-391.
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K. Contracte de cercetare/granturi

1. *Modernizarea Laboratorului de Electronică de putere, Facultatea de Inginerie Electrică, Energetică şi Informatică Aplicată, TULASI*, Contracte: nr.1010/30.01.2023, nr.1071/31.03.2023, nr.1185/08.08.2023, nr.1207/08.09.2023, încheiate între Vitesco Technologies Engineering Romania şi SETIS (Societatea Absolvenţilor Facultăţii de Electrotehnică din Iaşi). Valoare totală: 30.000 lei (2023), Responsabil: Conf.dr.ing. Mihai ALBU.
2. *Proiect de modernizare a Laboratorului de Acţionări electrice, Facultatea de Inginerie Electrică, Energetică şi Informatică Aplicată, TULASI*, Contract nr.132/18.03.2022 încheiat între firma Borg Warner şi SETIS (Societatea Absolvenţilor Facultăţii de Electrotehnică din Iaşi). Valoare: 100.000 lei (2022), Responsabil: Conf.dr.ing. Mihai ALBU.
3. *Reţele de distribuţie de curent continuu pentru aplicaţii industriale – DCNET*, Contract 194/07.2006 (Consortiu) Val: 297.500 mil, Responsabil tema: Prof. dr.ing Mihaela ALBU – Facultatea de Inginerie Electrică – Bucureşti., Valoare UTI: 43.000RON/2008, Responsabil UTI: Prof.dr.ing. Corneliu BOŢAN.
4. *Algoritmi evoluati de control in timp real pentru optimizarea vehiculelor electrice hibride*, Contract CEEX X2C28/2006, Valoare 350000/2008 din care 193700/2008 pentru UTI, na = 10, Director grant: Prof.dr.ing. Gh. Livint,
5. *Algoritmi evoluati de control in timp real pentru optimizarea vehiculelor electrice hibride*, Contract CEEX nr. X2C28/2006, Valoare: 381000/2007 din care 212000RON/2007 pentru UTI, Director proiect: Prof.dr.ing. Gheorghe LIVINŢ.
6. *Metode avansate de control pentru eficientizarea producerii şi utilizării energiei*, Contract CEEX-MENER nr.603/2005 Valoare:192.500 RON/2007 pentru UTI, Director proiect: Prof.dr.ing. Corneliu BOŢAN.
7. *Reţele de distribuţie de curent continuu pentru aplicaţii industriale – DCNET*, Contract 194/07.2006 (Consortiu) Val: 297.500 mil, Responsabil tema: Prof.dr.ing Mihaela ALBU – Facultatea de Inginerie Electrică – Bucureşti, Subcontract UTI: 3782P/02.07.07., Valoare: 45.800RON/2007, Responsabil: Prof.dr.ing. Corneliu BOŢAN.
8. *Cercetări privind utilizarea inteligenţei artificiale pentru controlul, comanda şi optimizarea regimurilor de funcţionare ale vehiculelor hibride*, Contract GR 80/23.05.2007, cod CNCSIS 528, Tema 30/2007, Valoare 60000RON/2007, Director proiect: Prof.dr.ing. Gheorghe. LIVINŢ.

9. *Sistem inteligent alternator-demaror-integrator-integrat pentru autovehicule*, Contract GR 80/23.05.2007, cod CNCSIS 530, Tema 32/2007, Valoare : 32000RON/2007, Director proiect: Conf.dr.ing. Dorin Dumitru LUCACHE.
10. *Algoritmi evoluati de control in timp real pentru optimizarea vehiculelor electrice hibride*, Contract CEEEX nr. X2C28/2006, Valoare 89.000 RON, Valoare UTI: 44.300 RON/2006, Director proiect: Prof.dr.ing. Gheorghe LIVINȚ.
11. *Metode avansate de control pentru eficientizarea producerii și utilizării energiei*, Contract CEEEX-MENER nr.603/2005 Valoare: 244.800 RON/2006 pentru UTI, Director proiect: Prof.dr.ing. Corneliu BOȚAN.
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14. *Sistem inteligent alternator-demaror-integrator-integrat pentru autovehicule*, Contract A1/GR 164/19.05.2006, cod CNCSIS 530, Tema 49/2006, Valoare : 30000RON/2006, Director proiect: Conf.dr.ing. Dorin Dumitru LUCACHE
15. *Metode moderne de control aplicate sistemelor de acționare electrică*, Contract nr. A1Gr 164/19.05.2006, Cod CNCSIS 471/2006, Tema 13, Valoare 20.000RON/2006, Director proiect: Prof.dr.ing. Corneliu BOȚAN
16. *Metode avansate de control pentru eficientizarea producerii și utilizării energiei*, Contract CEEEX-MENER nr.603/2005 Valoare: 244.200RON/2005 pentru UTI, Director proiect: Prof.dr.ing. Corneliu BOȚAN
17. *Cercetări privind utilizarea inteligenței artificiale pentru controlul, comanda și optimizarea regimurilor de funcționare ale vehiculelor hibride*, Contract 27637/14.03.2005, Cod CNCSIS 528 Tema 33, Valoare 50000RON/2005, Director proiect: Prof.dr.ing. Gheorghe. LIVINȚ
18. *Sistem inteligent alternator-demaror-integrator-integrat pentru autovehicule*, Contract 27637/14.03.2005, cod CNCSIS 530, Tema 35/2005, Valoare : 28000RON/2005, Director proiect: Conf.dr.ing. Dorin Dumitru LUCACHE
19. *Metode moderne de control aplicate sistemelor de acționare electrică*, Contract 33371/2004, Cod CNCSIS 471/2005, Tema 11, Valoare: 17000RON/2005, Director proiect: Prof.dr.ing. Corneliu BOȚAN
20. *Structuri avansate de conducere a acționărilor electrice cu motoare pas cu pas*, Contract 34664/2005-T5, Cod CNCSIS 464/2005, Valoare 12.000RON/2005, Director proiect: Prof. dr.ing. Gheorghe BĂLUȚĂ.
21. *Structuri avansate de conducere a acționărilor electrice cu motoare pas cu pas*, Contract 33371/2004 – T5, Cod CNCSIS 464/2004, Valoare 110 mil.ROL/2004, Director proiect: Prof. dr.ing. Gheorghe BĂLUȚĂ.

22. *Calculul câmpului, proiectarea și experimentarea unor motoare sincrone de construcție specială*, Contract 33557/2003, Cod CNC SIS 336/2003, Tema 37, Valoare: 72 mil.ROL/2003, Director proiect Prof.dr.ing. Alecsandru SIMION.
23. *Calculul câmpului, proiectarea și experimentarea unor motoare sincrone de construcție specială*, Cod CNC SIS 406/2002, Valoare: 46 mil.ROL/2002, Director proiect: Prof.dr.ing. Alecsandru SIMION.
24. *Studiul câmpului, proiectarea și realizarea unor modele experimentale de motoare electrice de construcție specială - SCAPREME*”, Contr.nr.6177/2000-02 cu ANSTI (ulterior cu CNC SIS)-Cod CNC SIS 106/2002, Valoare: 50 mil.ROL/2002, Director proiect: Prof.dr.ing. Alecsandru SIMION.
25. *Calculul câmpului, proiectarea și experimentarea unor motoare sincrone de construcție specială*, Contract 35254/2001, cod CNC SIS 247/2001, Tema 43, Valoare: 42,4mil.ROL/2001, Director proiect: Prof.dr.ing. Alecsandru SIMION.
26. *Studiul câmpului, proiectarea și realizarea unor modele experimentale de motoare electrice de construcție specială - SCAPREME*, Contr.nr.6177/2000-02 cu ANSTI (ulterior cu CNC SIS) - Tema A26/2001, Valoare: 57,4 mil.ROL/2001 - Director proiect: Prof.dr.ing. Alecsandru SIMION;
27. *Studiul câmpului, proiectarea și realizarea unor modele experimentale de motoare electrice de construcție specială - SCAPREME*, Contr.nr.6177/2000-02 cu ANSTI (ulterior cu CNC SIS) - Tema B23/2000, Valoare: 37,700 mil.ROL/2000, Director proiect: Prof.dr.ing. Alecsandru SIMION.
28. *O nouă calitate în pregătirea practică a studenților folosind laboratoare multifuncționale de electrotehnică* – Program multiinstituțional în colaborare cu Universitatea Tehnică Cluj-Napoca, GRANT CNFIS 98/1997 (finanțat de CNFIS și Banca Mondială), Proiect de Inițiere Program - PIP realizat în 1998/1999 etapa I, Valoare: 24400USD =216,550 mil.ROL/1998 , Director proiect: Prof.dr.ing. Alecsandru SIMION, 18 membrii în echipă având cote egale (1USD = 8875 ROL în 1998).
29. *Cercetări privind noi posibilități de comandă cu și fără traductor incremental (de poziție) pentru motoarele pas cu pas*.Contract de cercetare nr. 5002, Grant 597/1996, Tema 65, Beneficiar: C.N.C.S.U. și Ministerul Învățământului, Valoare: 3 mil.ROL/1996, Director proiect: Prof.dr.ing. Mircea Paul DIACONESCU.
30. *Cercetări privind noi posibilități de comandă cu și fără traductor incremental (de poziție) pentru motoarele pas cu pas*.Contract de cercetare nr. 4002, Grant 662/1995, Tema B11, Beneficiar: C.N.C.S.U. și Ministerul Învățământului, Valoare: 1,6 mil.ROL/1995, Director proiect: Prof.dr.ing. Mircea Paul DIACONESCU.
31. *Studii și cercetări experimentale pentru raționalizarea consumurilor de energie în secția de Finisaj la S.C. Integrata S.A. Pașcani*. Contract nr. 666/95-96. Beneficiar: S.C. Integrata Pașcani S.A., Valoare: 2,360 mil.ROL/1995, Responsabil contract: Șef lucr. Grigore TAȘCĂ

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Asist. univ. drd. ANTON Mihăiță-Emanuel

A. Teza de doctorat (*în curs..*)

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B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. **M. -E. Anton**, *A Comparative FEM Study Between Permanent Magnet and Wound Field Synchronous Machines*, Bulletin of the Polytechnic Institute of Iași. Electrical Engineering, Power Engineering, Electronics Section, vol. 70, no. 1, Gheorghe Asachi Technical University of Iasi, 2024, pp. 75-85.

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

1. **M. -E. Anton**, *Design of a High-Speed Permanent Magnet Synchronous Motor with a 9/8 Structure for Electric Go-Karts*, 8th International Conference of the Doctoral School (CSD), Iasi, Romania, May 14-16, 2025.
2. **M. -E. Anton**, *Electromagnetic Performance Comparison of Low-Cost Ferrite and Rare-Earth Neodymium PM Synchronous Machines*, 8th International Conference of the Doctoral School (CSD), Iasi, Romania, May 14-16, 2025.
3. **M. -E. Anton**, A. Munteanu, B. Virlan, A. Simion, I. Nacu and L. Livadaru, *The Study of Influence of Rotor Flux Barriers on Electromagnetic Performance of Interior Permanent Magnet Synchronous Machine (IPMSM)*, 13th IEEE International Conference and Exposition on Electrical and Power Engineering (EPEi), Iasi, Romania, October 17-19, 2024, pp. 547-550, doi: 10.1109/EPEi63510.2024.10758153, (**IEEE Xplore**).
4. **M. -E. Anton**, *A Comparative FEM Study between Permanent Magnet and Wound Field Synchronous Machines*, 7th International Conference of the Doctoral School (CSD), Iasi, Romania, May 15-17, 2024.
5. V. Bahrin, S. Aradoaei, **M. -E. Anton**, *Direct Current Motor Speed Adjustment Via Indirect Self-Adjusting Regulator*, 12th International Conference and Exposition on Electrical and Power Engineering (EPE), Iasi, Romania, October 20-22, 2022, pp. 727-730, doi: 10.1109/EPE56121.2022.9959768, (**IEEE Xplore**, **SCOPUS**).

J. Invenții

1. C.-G. Haba, **M.-E. Anton**, Husă de telefon cu difuzoare și lumini, Număr de publicare: 137269 A2 (număr de cerere de brevet de invenție: a 2021 00412).

K. Contracte de cercetare

L. Premii, distincții

M. Alte realizări semnificative

Data, **08.03.2026**

Asist. univ. drd. ANTON Mihăiță-Emanuel

Lista de lucrări în domeniul de studii universitare de licență Inginerie electrică

Numele și prenumele: **Antonescu Ion**

A. **Teza de doctorat.**

“Contribuții la modelarea geometrico-numerică a fenomenelor gazodinamice, cu aplicații la proiectarea motoarelor cu ardere internă”, Îndrumător Prof. Univ. Dr. Ing. Radu Gaiginschi, Universitatea Tehnică “Gheorghe Asachi” din Iași, Facultatea de Mecanică, 2010

B. **Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).**

1. **Ion Antonescu**, Capitolul „Managementul dinamic al resurselor energetice regenerabile în condiții de incertitudine și risc” în volumul colectiv „Metode și tehnici utilizate în managementul organizației”, coordonatori Ionel-Ciprian Alecu, Ovidiu Gherasim, Editura „ProUniversitaria”, București, 2015, pag. 109-140 ISBN 978-606-26-0357-1, 31 pag.
2. Slonovschi A., Prună L., **Antonescu I.** *Desen Tehnic Pentru Construcții*, Editura PIM, Iași, ISBN 978-606-13-0021-1, 254 pg., 2010
3. Prună L., Anghel A., **Antonescu I.**, Romanescu C., Slonovschi A., *Sistem Expert Pentru Stabilirea Tipului de Ajustaj, Alegerea Campului de Toleranță și Determinarea Valorilor Abaterilor Limită în Proiectarea Asistată De Calculator*, Editura Politehnia, Iași, ISBN 978-973-621-253-6, 197 pg., 2009
4. Slonovschi A., Anghel A., **Antonescu I.**, Dănăilă W., Prună L., Romanescu C., *Poliedre*, Editura PIM, Iași, ISBN 978-606-520-466-9, 141 pg., 2009
5. Hâncu G., **Antonescu I.** *Guidebook Of Technical Drawing In Construction*, Editura Societății Academice „Matei-Teiu Botez”, Iași, ISBN 978-973-8955-44-8, 100 pg. (60 pg. A4), 2008
6. Dănăilă W., Prună L., Anghel A., Romanescu C., **Antonescu I.**, Slonovschi A., *Infografică*, Editura PIM, Iași, ISBN 978-973-716-945-7, 225 pg., 2008
7. Slonovschi A., Anghel A., **Antonescu I.**, Dănăilă W., Prună L., Romanescu C., *Infografică*, Editura PIM, Iași, ISBN 978-973-716-718-7, 149 pg., 2007
8. Prună L., Slonovschi A., **Antonescu I.** *Geometrie Descriptivă*, Editura Societății Academice „Matei-Teiu Botez”, Iași, ISBN (10) 973-7962-95-8; ISBN (13) 978-973-7962-95-9, 173 pg., 2006
9. Slonovschi A., Prună L., **Antonescu I.** *Geometrie Descriptivă, Aplicații*, Ed. Tehnopress, Iași, ISBN-10 973-702-331-5; ISBN-13 978-973-702-331-5, 257 pg., 2006
10. Prună L., Slonovschi A., **Antonescu I.**, Popescu F., *Geometrie Descriptivă*, Ed. Cermi, Iași, ISBN 973-8188-25-3, 221 pg., 2002
11. Popescu F., Prună L., **Antonescu I.** *Elemente de grafică tehnică asistată de calculator*, Ed. Junimea, Iași, ISBN 973-37-0276-5, 41 pg., 1997
12. Popa C., Strobel Gh., Anghel A., Prună L., Onofrei L., Romanescu C., Dănăilă W., **Antonescu I.** *Desen Tehnic, Desen Industrial, Elemente pentru Desen de Instalații, Elemente de Grafică Asistată de Calculator*, Ed. Gh. Asachi, Iași, ISBN 973-9178-36-7, 514 pg., 1996

C. *Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.*

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F. *Lucrări prezentate la conferințe sau comunicate sub formă de poster*

1. Iulian Cucoș, Ioan Călinescu, **Ion Antonescu**, Perino Baraga, Maria Oana Agavriloaie - Challenges of developing of a pyrolysis plant for thermal treatment of plastic wastes, 7th Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC7, Brno, Czech Republic, 28-31 August 2023
2. Iulian Cucoș, Georgiana Marin, Perino Baraga, **Ion Antonescu** - Thermal analysis of a pump used in an innovative installation for cementing and special operations at the oil well intended to improve the efficiency of the extraction of conventional energy resources, 7th Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC7, Brno, Czech Republic, 28-31 August 2023
3. **Ion Antonescu** - Aplicații practice în gestionarea inputurilor controlerelor destinate tehnologiilor IoT prin numere fuzzy, comunicată la Workshop-ul „Sisteme fuzzy în economie”, organizat de Institutul de Cercetări Economice și Sociale „Gh. Zane”, Academia Română, 24 octombrie 2023, în cadrul Zilelor Academice Ieșene, Ediția a XXXVIII-a
4. **Ion Antonescu** “Biblioteci utilizate în gestionarea controlerelor fuzzy destinate aplicațiilor IoT”, comunicată la Workshop-ul „Sisteme fuzzy în economie”, organizat de Institutul de Cercetări Economice și Sociale „Gh. Zane”, Academia Română, 26 octombrie 2022, în cadrul Zilelor Academice Ieșene, Ediția a XXXVII-a
5. **Ion Antonescu** „Aplicații ale controlerelor fuzzy pentru aplicații IoT”, comunicată la Workshop-ul „Sisteme fuzzy în economie”, organizat de Institutul de Cercetări Economice și Sociale „Gh. Zane”, Academia Română, 29 octombrie 2021, în cadrul Zilelor Academice Ieșene, Ediția a XXXVI-a
6. Daniel Lepadatu, Dorina Isopescu, Ion Rusu, Loredana Judele, Iulian Cucoș, **Ion Antonescu** - Comparative studies for thermal conductivities determination of Synthetic wood with recyclable waste using design of experiment method, comunicată la Conferința Internațională „Interdisciplinarity and Cooperation bin Cross Border Research” ICCR - 2021, 2-4 decembrie 2021, Chișinău, Republica Moldova, 2-4 decembrie 2021, organizată de Facultatea Transfrontalieră a Universității „Dunărea de Jos” din Galați
7. **Ion Antonescu**, Dorina-Nicolina Isopescu, Iulian Cucoș, Vlad-Cătălin Cucoș, Ionel-Ciprian Alecu, Laurența Crudu - Fiberglass waste recycling plant, comunicată la Târgul Internațional de Invenții și Idei Practice INVENT - INVEST 2021, in memoriam

CONSTANTIN-MARIN ANTOHI, Editia a XII-a, 10 decembrie 2021, organizat de Societatea Inventatorilor din Romania in colaborare cu Facultatea de Electronica Telecomunicações și Tehnologia Informației, Universitatea Tehnică „Gheorghe Asachi” din Iași, http://www.inventica-sir.ro/doc/comisii_2021/sesiunea_3_2021.htm

8. Ioan Alecu, **Ion Antonescu**, Dumitru Cuciureanu, Adrian Mihailă, Swivel impeller pump with low rotational speed, comunicată la Târgul Internațional de Invenții și Idei Practice INVENT - INVEST 2021, in memoriam CONSTANTIN-MARIN ANTOHI, Editia a XII-a, 10 decembrie 2021, organizat de Societatea Inventatorilor din Romania in colaborare cu Facultatea de Electronica Telecomunicações și Tehnologia Informației, Universitatea Tehnică „Gheorghe Asachi” din Iași, https://www.inventica-sir.ro/doc/comisii_2021/sesiunea_4_2021.htm

9. Iulian Cucos, **Ion Antonescu**, Ionel-Ciprian Alecu „Managementul energetic al construcțiilor montane în contextul economiei circulare”, la a 14-a Conferință științifică consacrată cunoașterii specificității economico-sociale și dezvoltării sustenabile a comunităților montane din România, în contextul noilor orientări ale CE prin Acordul Verde European-Orizont2040-2050, „Dezvoltarea Sustenabilă și Rezilientă a Zonei Montane în Contextul Noilor Provocări Generate de Pandemia cu COVID-19 și Acordul Verde European (The European Green Deal)” a Centrului de Economie Montană – CEMONT Vatra Dornei /Institutul Național de Cercetări Economice ”Costin C. Kirițescu”, Academia Română, 17 – 18 septembrie 2020, Vatra Dornei

10. **Ion Antonescu** “Cercetări industriale privind conversia deșeurilor de fibră de sticlă cu și fără ancolant pentru producerea unor materiale ecologice eficiente energetic pentru construcții”, Workshopul „Economie circulară și managementul integrat al deșeurilor în contextul dezvoltării durabile sustenabile”, în cadrul proiectului Produse și tehnologii Ecoinovatoare pentru eFiciență Energetică în CONstrucții EFECON, Facultatea de Hidrotehnică și Ingineria Mediului, Universitatea Tehnică „Gheorghe Asachi” din Iași, 14/15 martie 2019

11. **I. Antonescu**, D. Isopescu, I. C. Alecu, D. Lepădatu, I. Cucos, L. Prună, A. Slonovschi, G. A. Butuc „Visual LISP library of fuzzy logic functions for developing eco-design expert systems in digital prototyping environments” International Conference on Environmental Engineering and Management (ICEEM 10), „Gheorghe Asachi” Technical University of Iași, 18-21 september 2019, Iași, România

12. **I. Antonescu**, I. Cucos, D. Lepădatu, I. C. Alecu „Aplicații ale rețelelor neuronale fuzzy în domeniul microcontrollerelor”, Zilele Academice Ieșene, Ediția a XXXIV-a, „Sisteme fuzzy în economie”, Institutul De Cercetări Economice Și Sociale „Gh. Zane”, Academia Română, 24 octombrie 2019

13. D. Lepădatu, I. C. Alecu, I. Cucos, **I. Antonescu** „Optimizarea multicriterială a lemnului sintetic utilizând inteligența artificială și logica fuzzy”, Zilele Academice Ieșene, Ediția a XXXIV-a, „Sisteme fuzzy în economie”, Institutul De Cercetări Economice Și Sociale „Gh. Zane”, Academia Română, 24 octombrie 2019

14. I. Cucos, **I. Antonescu**, D. Lepădatu, I. C. Alecu „Conducerea cu algoritmi de reglare bazați pe rețele neuronale fuzzy a sistemelor de conversie cu plasmă a deșeurilor municipale”, Zilele Academice Ieșene, Ediția a XXXIV-a, „Sisteme fuzzy în economie”, Institutul De Cercetări Economice Și Sociale „Gh. Zane”, Academia Română, 24 octombrie 2019

15. **Ion Antonescu**, Iulian Cucos, Mihaela Codreanu, Daniel Lepădatu „Aspecte privind folosirea logicii fuzzy in managementul resurselor regenerabile de energie in conditiile de incertitudine specifice zonei de munte” la a 7-a Conferință științifică, anuală, a Centrului de Economie Montană – CEMONT/Institutul Național de Cercetări Economice ”Costin C. Kirițescu”, Academia Română, 31 august – 2 septembrie 2018, Vatra Dornei

16. **Ion Antonescu** , “Biblioteca de funcții matematice fuzzy pentru programarea microcontrollerelor în mediile de dezvoltare Arduino și Energia” la International Conference „Advancements in the Theory of Economic Decisions under Risk and Uncertainty” organizată de Institutul de Cercetări Economice și Sociale „Gh. Zane” , Academia Română, 12 octombrie 2018
17. C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu, “Platforma mobila pentru aerarea apelor de suprafata” la Târgul Internațional de Invenții și Idei Practice „INVENT-INVEST 2018” Chișinău, Republica Moldova, 9-11 noiembrie 2018, Republicii Moldova, Chișinău
18. **Ion Antonescu**, Mihaela Codreanu „Considerații privind utilizarea panourilor fotovoltaice flexibile în ariile protejate din zona de munte” la a 6-a Conferință științifică, anuală, a Centrului de Economie Montană – CEMONT/Institutul Național de Cercetări Economice ”Costin C. Kirițescu”, Academia Română, 23-27 Septembrie 2017, Vatra Dornei
19. Igor Cretescu, Carmen Teodosiu, Laura Zaleschi, Gabriela Soreanu, **Ion Antonescu**. „Reactor pentru epurarea electrochimică a apelor uzate Industriale” la Expoziția Internațională Specializată „INFOINVENT”, organizată de Agenția de Stat pentru Proprietate Intelectuală a Republicii Moldova, Chișinău, 15-18 noiembrie 2017
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21. **Ion Antonescu**, Mihaela Codreanu „Considerații privind utilizarea panourilor cu celule fotovoltaice flexibile cu polimeri semiconductori în condițiile economiei montane” A 5-a Conferință științifică, anuală, a Centrului de Economie Montană – CEMONT/Institutul Național de Cercetări Economice ”Costin C. Kirițescu”, Academia Română, 23-24 Septembrie 2016, Vatra Dornei
22. Igor Cretescu, Carmen Teodosiu, Laura Zaleschi, Gabriela Soreanu, **Ion Antonescu**. „Reactor pentru epurarea electrochimică a apelor uzate Industriale” Salonul Bruxelles-INNOVA 2016, 17-19 noiembrie 2016, Bruxelles, Belgia 10/5=2 pct.
23. C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu, “Platforma mobila pentru aerarea apelor de suprafata” New Times”, Sevastopol, septembrie 2016
24. **Ion Antonescu**, „Creation Premises of an Expert System for Dynamic Management of Renewable Energy Resources under Uncertainty Conditions”(Premizele de creare a unui sistem expert de management dinamic al resurselor energetice regenerabile în condiții de incertitudine), prezentată la International Conference “Humanities And Social Sciences Today. Classical And Contemporary Issues”, 7-11 May 2015, Iași, Romania, organized by the Romanian Academy, Iași Branch, ”Gheorghe Zane” Institute For Economic And Social Research
25. **Ion Antonescu**, “Fuzzy Databases for an Expert System for Management of Renewable Energy Sources” prezentată la Workshop-ul Formativ Internațional „Cunoaștere și Reprezentare prin Sisteme Fuzzy”, Iași 21-22 Iulie 2015, organizat de Academia Română, Filiala Iași, Institutul de Cercetări Economice și Sociale “Gheorghe Zane”.
26. **Ion Antonescu**, „Aspecte privind deciziile economice în managementul resurselor energetice regenerabile”, prezentată la Conferința „Zilele Academice Ieșene, Ediția a XXIX-a” 19 Septembrie 2014, organizată De Academia Română – Filiala Iași, Institutul De Cercetări Economice Și Sociale „Gh. Zane”.

1. Antohi C. M., Slușer B. M., **Antonescu I.**, Crețescu I., Universitatea Tehnică "Gheorghe Asachi" din Iași, Platformă mobilă pentru aerarea apei de suprafață Brevet OSIM Nr. 131395 B1, 2019
2. Crețescu I., Teodosiu C., Zaleschi L., Soreanu G., **Antonescu I.**, Infomedia Srl, Piatra-Neamț Reactor pentru epurarea electrochimică a apelor uzate industriale, Brevet OSIM Nr. 129934 B1, 2019
3. **Antonescu I.**, Alecu I., Golgoțiu E., Cucuș I., Stroe C.M., Generator de energie cu triplă conversie, Brevet OSIM Nr. 129175 B1, 2018
4. Alecu I., **Antonescu I.**, Cuciureanu D., Mihailă A., Pompă cu rotor oscilant acționată cu viteză de rotație mică, Brevet OSIM Nr. 126143 B1, 2014
5. Burlacu L., **Antonescu I.**, Cavaropol D.V., Dispozitiv de pulverizare a unui lichid, Brevet OSIM Nr. 122024 B1, 2008
6. Crețescu I., **Antonescu I.**, Macoveanu M., Traductor pentru oxigen, Brevet OSIM Nr. 113277 B, 1998

H. **Contracte de cercetare/granturi.**

1. Contract mobilitate cercetător MC 16 din 06/11/2020, Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării (UEFISCDI), Program: PN-III-P1-1.1-MC-2020-0077, Universitatea Tehnică "Gheorghe Asachi" din Iași, valoare: 3.293 lei, 2020, **director proiect: ș.l.dr.ing. Ion Antonescu**
2. Contract subsidiar "Sistem de valorificare energetica a deșeurilor și producerea unor materialele termoizolatoare ecologice eficiente energetic pentru construcții" nr. 6/26.09.2018 (16483/01.08.2018 - UTI), la Proiectul: „Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții EFECON”, Director proiect, Prof. univ. dr. ing. Dorina Nicolina Isopescu, Id: P_40_295/105524 - Proiect cofinanțat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership), A. P.1 - Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor, Acțiune 1.2.3: Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership) Cod MySMIS: 105524, ID: P_40_295, <http://www.efecon.tuiasi.ro> **Responsabil/Director contract de cercetare, Șef. lucr. dr. ing. Ion Antonescu**, partener industrial SC BICO INDUSTRIES SRL Piatra Neamț, Valoare: 339.350 lei, 2018-2021, Nr. luni 30, Nr. membri 5
3. Contract subsidiar „Cercetări industriale privind conversia deșeurilor de fibră de sticlă cu și fără ancolant pentru producerea unor materialele ecologice eficiente energetic pentru construcții”, nr. 13/01.08.2018 (16482/01.08.2018 - UTI) la Proiectul „Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții EFECON”, Director proiect, Prof. univ. dr. ing. Dorina Nicolina Isopescu, contract Id: P_40_295/105524 - Proiect cofinanțat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership), A. P.1 - Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor, Acțiune 1.2.3: Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership) Cod MySMIS: 105524, ID: P_40_295, <http://www.efecon.tuiasi.ro> **Responsabil/Director contract de cercetare, Șef. lucr. dr. ing. Ion Antonescu**, , partener industrial SC BICO INDUSTRIES SRL Piatra Neamț, Valoare: 265.650 lei, 2018-2020, Nr. luni 24, Nr. membri 7
4. Contract subsidiar „Sistem de valorificare energetica a deșeurilor lichide periculoase din construcții și producerea de produse ecologice pentru construcții”, Nr. 4/26.09.2018 (16483/01.08.2018 - UTI) la Proiectul: „Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții EFECON”, Director proiect, Prof. univ. dr. ing. Dorina Nicolina Isopescu, contract Id: P_40_295/105524 - Proiect cofinanțat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership), A. P.1 - Cercetare, dezvoltare tehnologică și

inovare în sprijinul competitivității economice și dezvoltării afacerilor, Acțiune 1.2.3: Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership) Cod MySMIS: 105524, ID: P_40_295, <http://www.efecon.tuiasi.ro> Responsabil/Director contract de cercetare, Șef. lucr. dr. ing. Iulian Cucoș, **membru Ion Antonescu**, partener industrial SC INDECO GRUP SRL București, Valoare: 524.325 lei, 2018-2021, Nr. luni contract 30, Nr. membri 5.

5. Contract subsidiar „Sistem de valorificare energetica a deșeurilor municipale și periculoase reciclabile din constructii pentru producerea de energie electrica si termica pentru cresterea eficientei energetice a constructiilor”, nr. 9/26.09.2018 (16483/01.08.2018 - UTI) la Proiectul: „Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții EFECON”, Director proiect, Prof. univ. dr. ing. Dorina Nicolina Isopescu, contract Id: P_40_295/105524 - Proiect cofinanțat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership), A. P.1 - Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor, Acțiune 1.2.3: Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership) Cod MySMIS: 105524, ID: P_40_295, <http://www.efecon.tuiasi.ro> Responsabil/Director contract de cercetare, Șef. lucr. dr. ing. Iulian Cucoș, **membru Ion Antonescu**, partener industrial SC 3D ECAS ENERGY SRL București, Valoare contract: 540.050 lei, 2018-2021, Nr. luni contract 30, Nr. membri 5

6. Contract subsidiar "Cercetari experimentale industriale pentru conversia cu plasma pe hidrogen a deseurilor municipale in energie pentru alimentarea ansamblurilor de locuit", nr. 10/01.08.2018 (16482/01.08.2018 - UTI) la Proiectul: „Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții EFECON”, Director proiect, Prof. univ. dr. ing. Dorina Nicolina Isopescu, contract Id: P_40_295/105524 - Proiect cofinanțat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership), A. P.1 - Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor, Acțiune 1.2.3: Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership) Cod MySMIS: 105524, ID: P_40_295, <http://www.efecon.tuiasi.ro> Responsabil/Director contract de cercetare, Șef. lucr. dr. ing. Marius Telișcă, **membru Ion Antonescu**, partener industrial SC 3D ECAS ENERGY SRL București, Valoare contract: 264.950 lei, 2018-2020, Nr. luni contract 24, Nr. membri 8

7. Contract subsidiar "Cercetari industriale privind conversia unor deseuri industriale periculoase lichide in energie și produse ecoinovatoare utilizabile in domeniul constructiilor", nr. 11/01.08.2018 (16482/01.08.2018 - UTI) la Proiectul: „Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții EFECON”, Director proiect, Prof. univ. dr. ing. Dorina Nicolina Isopescu, contract Id: P_40_295/105524 - Proiect cofinanțat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership), A. P.1 - Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor, Acțiune 1.2.3: Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership) Cod MySMIS: 105524, ID: P_40_295, <http://www.efecon.tuiasi.ro>, Responsabil/Director contract de cercetare, Șef. lucr. dr. ing. Iulian Cucoș, **membru Ion Antonescu**, partener industrial SC INDECO GRUP SRL București Valoare: 265.675 lei, 2018-2020, Nr. luni 24, Nr. membri 7

8. Contract subsidiar "Cercetari experimentale industriale pentru producerea lemnului sintetic aditivat cu nanomateriale utilizând deșeuri de biomasa", nr. 14/26.09.2018 (16483/01.08.2018 - UTI) la Proiectul: „Produse și tehnologii ecoinovatoare pentru eficiență energetică în construcții EFECON”, Director proiect, Prof. univ. dr. ing. Dorina Nicolina Isopescu, contract Id: P_40_295/105524 - Proiect cofinanțat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership), A. P.1 - Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor, Acțiune 1.2.3: Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership) Cod MySMIS: 105524, ID: P_40_295, <http://www.efecon.tuiasi.ro> Responsabil/Director contract de cercetare, Șef. lucr. dr. ing. Iulian Cucoș, **membru Ion Antonescu**, partener industrial SC INDECO GRUP SRL București Valoare: 265.675 lei, 2018-2020, Nr. luni 24, Nr. membri 7

Partnership), A. P.1 - Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor, Acțiune 1.2.3: Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership) Cod MySMIS: 105524, ID: P_40_295, <http://www.efecon.tuiasi.ro>, Responsabil/Director contract de cercetare, Șef. lucr. dr. ing. Daniel Lepădatu, **membru Ion Antonescu**, partener industrial SC GREEN RIV PROJECT SRL Bacău, Valoare: 213.130 lei, 2018-2020, Nr. luni 24, Nr. membri 10

9. Contract subsidiar „Sistem pentru producerea lemnului sintetic aditivat cu nanomateriale utilizand deseuri de biomasa”, nr. 15/26.09.2018 (16483/01.08.2018 - UTI), la Proiectul „Produce și tehnologii ecoinovatoare pentru eficiență energetică în construcții EFECON”, Director proiect, Prof. univ. dr. ing. Dorina Nicolina Isopescu, contract Id: P_40_295/105524 - Proiect cofinanțat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership), A. P.1 - Cercetare, dezvoltare tehnologică și inovare în sprijinul competitivității economice și dezvoltării afacerilor, Acțiune 1.2.3: Parteneriate pentru transfer de cunoștințe (Knowledge Transfer Partnership) Cod MySMIS: 105524, ID: P_40_295, <http://www.efecon.tuiasi.ro>, Responsabil/Director contract de cercetare, Șef. lucr. dr. ing. Daniel Lepădatu, **membru Ion Antonescu**, partener industrial SC GREEN RIV PROJECT SRL Bacău, Valoare: 386.870 lei, 2018-2021, Nr. luni 30, Nr. membri 6

10. Grant "Dezastre naturale, analiză de risc și siguranță în infrastructura hidrotehnică" PN-III-P1-1.1-MCD-2017-0022, contract 2/20.11.2017, P1 - Dezvoltarea sistemului național de CD, Subprogram 1.1 - Resurse Umane - Proiecte de mobilitate pentru cercetatori cu experienta din diaspora, 2017, Valoare 17.280 lei, **membru în colectiv Ion Antonescu**, 4 membri, <https://uefiscdi.ro/preview.php?id=4767&wtok=9b786e93daf7100a195a247f580ede7927df87d8&wtkps=XY1RDolwDEdV0m+Ja8ey0d2BmHgCZEgWiKCDLMF4d9n8MPrVpnnvtWHNz8CKIS7DGMb6Noq0rMgGlgzBO0ibYcDxHufy0TZVqbd13C5u8l1ZoFmGPoYC1yn6a59oZPBpEoMi+IRal+NIJgGawbn5djofpRZkyAhlsrGr38uBEJVEIChzVmWr/nNQMPyC+9/Yga3t6w0=&wchk=092e3f4f173aa2a4b222706e049e95bb356394ca>

11. Grant „Dezvoltarea platformei de cercetare pentru energie eficientă și durabilă - ENERED”, contract POSCCE-A2-O2.2.1-2009-4, ID nr. 911 - Proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial Creșterea Competitivității Economice - POS CCE, Contractul de Finanțare 430 din 21 dec. 2012, , **membru în colectiv Ion Antonescu**, 2013 – 2016, valoare 51.031.879 ron, Nr. membri 28

12. Grant „Nanomateriale inteligente (introduse în straturile rutiere) pentru conversia și stocarea energiei solare a căilor rutiere în energie termică/electrică pentru degivrare sau pentru stații de alimentare a autovehiculelor ecologice” PNCDI III P1 - Dezvoltarea sistemului național de CD, Subprogramul 1.1. Resurse Umane, Proiecte de mobilitate pentru cercetatori cu experienta din diaspora, PN-III-P1-1.1-MCD- 2016-0090, **membru în colectiv Ion Antonescu**, 2016, valoare 24.030,00 ron, Nr. membri 4

13. Grant "Sistem expert pentru stabilirea tipului de ajustaj, alegere a câmpurilor de toleranțe și determinarea valorilor abaterilor limită în proiectarea asistată de calculator", Cod CNCSIS 249, Tema nr. 7, Contract nr. GR 217, 2006, 2006-2008, **membru în colectiv Ion Antonescu**, valoarea 127443.5 lei, Nr. membri 7

14. Contract nr. 3002/94-10116 Poz. C-23, Realizarea de biblioteci parametrizate de repere specifice standardelor românești pentru sistemele de proiectare asistată de calculator, încheiat cu M.I., 1994, **membru în colectiv Ion Antonescu**

15. Contract nr. 5002/C Poz. B18, Elaborarea de programe didactice de grafică asistată de calculator pentru studenți la disciplina geometrie descriptivă, încheiat cu M.C.T., **membru în colectiv Ion Antonescu**, 1993

16. Contract nr. 5002C/7463-93 Poz.C2-18, Elaborarea de programe didactice de grafică asistată de calculator pentru studenții la geometrie descriptivă, încheiat cu M.I., **membru în colectiv Ion Antonescu**, 1993
17. Contract nr. 1080B/7464-93 Poz.B1-26, Pregătirea documentației pentru folosirea programelor specializate de grafică asistată de calculator în desenul tehnic, încheiat cu M.I., membru în colectiv Ion Antonescu, 1993
18. Grant „Introducerea graficii asistate de calculator în pregătirea studenților din anii I și II de la facultățile tehnice din cadrul Institutului Politehnic Iași” în valoare de 11.000 dolari S.U.A., aprobat și finanțat de "Fundatia Soros pentru o Societate Deschisă", România, **membru în colectiv Ion Antonescu**, 1993,
19. Contract nr. 7004/91, Introducerea graficii asistate de calculator în procesul de pregătire a studenților la disciplina geometrie descriptivă și desen. documentare asupra programelor folosite în țară și străinătate, încheiat cu M.I.S., **membru în colectiv Ion Antonescu**, 1991
20. Contract de cercetare nr. 960-87 al I.N.M.T., Filiala Iași, beneficiar Întreprinderea de Autoturisme ARO, Cîmpulung-Muscel, **membru în colectiv Ion Antonescu**, 1987

I. Premii, distincții.

1. Medalia de Aur la Târgul Internațional de Invenții și Idei Practice INVENT - INVEST 2021, în memoriam CONSTANTIN-MARIN ANTOHI, Editia a XII-a, 10 decembrie 2021, organizat de Societatea Inventatorilor din Romania în colaborare cu Facultatea de Electronică Telecomunicații și Tehnologia Informației, Universitatea Tehnică „Gheorghe Asachi” din Iași, pentru lucrarea **Ion Antonescu**, Dorina-Nicolina Isopescu, Iulian Cucos, Vlad-Cătălin Cucos, Ionel-Ciprian Alecu, Laurența Crudu - Fiberglass waste recycling plant. http://www.inventica-sir.ro/doc/rezultate/premii_SIR31_d.htm
2. Medalia de Argint la Târgul Internațional de Invenții și Idei Practice INVENT - INVEST 2021, în memoriam CONSTANTIN-MARIN ANTOHI, Editia a XII-a, 10 decembrie 2021, organizat de Societatea Inventatorilor din Romania în colaborare cu Facultatea de Electronică Telecomunicații și Tehnologia Informației, Universitatea Tehnică „Gheorghe Asachi” din Iași, pentru lucrarea Ioan Alecu, **Ion Antonescu**, Dumitru Cuciureanu, Adrian Mihailă, Swivel impeller pump with low rotational speed, http://www.inventica-sir.ro/doc/rezultate/premii_SIR31_d.htm
3. Diplomă de Excelență la ProTehnica, ediția a II-a, Salonul Inventatorilor Maramureșeni, ediția a XIII-a, organizată de Camera de Comerț și Industrie Maramureș, Baia Mare, 23-24 mai 2019, Echipament de decolmatare parțială a acumulărilor de apă autori: Valentin Boboc, Raluca Mitroi, **Ion Antonescu**.
4. Premiul Special al Juriului la Workshop-ul de Invenții și Inovații 2019 - Iași Capitala Tineretului, pentru inovația Sisteme inovative de generare energie ecologică, Facultatea de Hidrotehnică, Geodezie și Ingineria Mediului, Universitatea Tehnică „Gheorghe Asachi” din Iași.
5. Diploma de Excelență, Workshop Invenții și Inovații TINERET-2019, Facultatea de Hidrotehnică, Geodezie și Ingineria Mediului, Universitatea Tehnică „Gheorghe Asachi” din Iași.
6. Diplomă de Excelență la ProTehnica, ediția a II-a, Salonul Inventatorilor Maramureșeni, ediția a XIII-a, organizată de Camera de Comerț și Industrie Maramureș, Baia Mare, 23-24 mai 2019, Echipament de decolmatare parțială a acumulărilor de apă autori: Valentin Boboc, Raluca Mitroi, **Ion Antonescu**.
7. Medalia de aur cu diplomă de excelență la Târgul Internațional de Invenții și Idei Practice „INVENT-INVEST 2018” Chișinău, Republica Moldova, pentru invenția

“Platformă mobilă pentru aerarea apelor de suprafață”, autori C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu.

8. Diploma Academiei de Științe a Moldovei, Chișinău, Republica Moldova, 2018.

9. Diplomă cu Medalia de Aur la Expoziția Internațională Specializată „INFOINVENT”, organizată de Agenția de Stat pentru Proprietate Intelectuală a Republicii Moldova, 15-18 noiembrie 2017, Chișinău, Republica Moldova, pentru invenția “Platformă mobilă pentru aerarea apelor de suprafață”, autori C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu

10. Diplomă cu Medalia de Argint la Expoziția Internațională Specializată „INFOINVENT”, organizată de Agenția de Stat pentru Proprietate Intelectuală a Republicii Moldova, 15-18 noiembrie 2017, Chișinău, Republica Moldova, pentru invenția „Reactor for electrochemical treatment of industrial waste water” autori Crețescu Igor, Theodosiu Carmen, Zaleschi Laura, Soreanu Gabriela, **Antonescu Ion**

11. Diplomă cu Medalia de Bronz la Expoziția Internațională Specializată „INFOINVENT”, organizată de Agenția de Stat pentru Proprietate Intelectuală a Republicii Moldova, 15-18 noiembrie 2017, Chișinău, Republica Moldova, pentru invenția „Echipament de decolmatare parțială a acumulărilor de apă” autori Raluca Mitroi, Valentin Boboc, **Antonescu Ion**

12. Diplomă de excelență cu Medalia de Aur la Târgul Internațional de Invenții și Idei de Afaceri „INVENT-INVEST 2017” Ungheni, România-Moldova, 12-15 noiembrie 2017 organizat de Societatea Inventatorilor din România, pentru invenția „Mobile Platform for Surface Water Aeration” autori C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu

13. Diplomă și Medalia Târgului la Târgul Internațional de Invenții și Idei de Afaceri „INVENT-INVEST 2017” Ungheni, România-Moldova, 12-15 noiembrie 2017 organizat de Societatea Inventatorilor din România, pentru invenția „Reactor for electrochemical treatment of industrial waste water” autori Crețescu Igor, Theodosiu Carmen, Yaleschi Laura, Soreanu Gabriela, **Antonescu Ion**

14. Diploma de excelență la Salonul Inovării și Cercetării UGAL INVENT, Galați, 19-20 octombrie 2017, organizat sub patronajul Ministerului Cercetării și Inovării, pentru invenția „Echipament de decolmatare parțială a acumulărilor de apă” autori Raluca Mitroi, Valentin Boboc, **Antonescu Ion**

15. Diploma Gold Medal la The XXI-th International Salon of Research, Inovation and Technological Transfer „INVENTICA 2017” Iași, România, 28-30 iunie, 2017, organizată de Institutul Național de Inventică Iași, pentru invenția „Echipament de decolmatare parțială a acumulărilor de apă” autori Raluca Mitroi, Valentin Boboc, **Antonescu Ion**

16. Medalia de aur pentru inventia "Reactor pentru epurarea electrochimică a apelor uzate Industriale". Salonul Bruxelles INNOVA 2016, 17-19 noiembrie 2016, Bruxelles, Belgia. Igor Cretescu, Carmen Teodosiu, Laura Zaleschi, Gabriela Soreanu, **Ion Antonescu**

17. Diploma de excelenta si medalie de aur, INVENTICA, iunie 2016, pentru inventia "Platforma mobila pentru aerarea apelor de suprafata", autori , B.M. Sluser, **I. Antonescu**, I. Cretescu

18. Diploma de excelenta si medalie de aur, INVENT-INVEST2016, septembrie 2016, pentru inventia "Platforma mobila pentru aerarea apelor de suprafata", C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu

19. Medalia de aur, Sevastopol, New Times, septembrie 2016, pentru inventia "Platforma mobila pentru aerarea apelor de suprafata", C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu

20. Premiul special acordat de Asociatia Romania pentru Tehnologii Neconventionale, Bucuresti, INVENT-INVEST/ septembrie 2016, C.M. Antohi, B.M. Sluser, **I.**

Antonescu, I. Cretescu, pentru inventia „Platforma mobila pentru aerarea apelor de suprafata”

21. Diploma Gold Medal la The XIX-th International Exhibition of Research, Inovation and Technological Transfer „INVENTICA 2015” Iași, România, june 24-26, 2015, organizată de Institutul Național de Inventică Iași, pentru „System for Conversion of Thermal Energy in Electricity”

22. Diploma Gold Medal with special mention of the jury la The XIX-th International Exhibition of Research, Inovation and Technological Transfer „INVENTICA 2015” Iași, România, june 24-26, 2015, organizată de Institutul Național de Inventică Iași, pentru „Motogenerator” Alecu I., **Antonescu I.**, Golgoțiu E., Crețescu I.

23. Diplomă de Excelență – Camera de Comerț și Industrie Maramureș - Salonul de INVENTICA ediția a-VIII-a Baia Mare 28-29.05.2015, „Generator de energie cu triplă conversie” autori: **Antonescu I.**, **Antonescu I.**, Alecu I., Golgoțiu E., Cucos I., Stroe C.M.

24. Diplomă de Excelență – Camera de Comerț și Industrie Maramureș - Salonul de INVENTICA ediția a-VIII-a Baia Mare 28-29.05.2015, „Reactor pentru epurarea electrochimică a apelor uzate industriale” autori: Crețescu I., Teodosiu C., Zaleschi L., Soreanu G., **Antonescu I.**

25. Diplomă Medalia de Aur la Salonul Internațional de Invenții și Inovații „Traian Vuia” Timișoara, 2015 organizat de Societatea Inventatorilor din Banat, „Generator de energie cu triplă conversie” autori: **Antonescu I.**, Alecu I., Golgoțiu E., Cucos I., Stroe C.M.

26. Diploma Gold Medal – International Fair of Inventions and Practical Ideas "INVENT - INVEST 2015 - FREE ENERGY ", Romanian Society of Inventors, Iasi, 19-22.10.2015, „Solar panel with organic flexible solar cells” autori: **Antonescu I.**, Miron M.

27. Diplomă cu Medalia de Argint la Salonul de Invenții și Inovații INVENTIKA, din cadrul Târgului Tehnic Internațional TIB București, 15-18 octombrie 2014 pentru „Reactor pentru epurarea electrochimică a apelor uzate industriale” autori: Crețescu I., Teodosiu C., Zaleschi L., Soreanu G., **Antonescu I.**

28. Diplomă cu Premiul I la Secțiunea Invenții cu Medalie de Aur la Târgul Internațional de Invenții și Idei Practice „INVEST-INVENT”, organizat de Societatea Inventatorilor din România, București, 17-23 iunie 2013, pentru lucrarea “Generator de Energie cu Triplă Conversie” autori: **Antonescu I.**, Alecu I., Golgoțiu E., Cucos I., Stroe C.M.

29. Diplomă cu Medalia de Bronz la Expoziția Europeană a Creativității și Inovării EUROINVENT 2012, Iași, pentru “Low Head Hydraulic Turbine” autori: Cucos I., **Antonescu I.**, Alecu I., Matei D.

30. Diplomă cu Medalia de Bronz acordată de Agenția de Stat pentru Proprietate Intelectuală a Republicii Moldova la Expoziția Internațională Specializată “INFOINVENT”, 22-25 noiembrie 2011, Chișinău, Republica Moldova, pentru “Convertor Termopneumatic cu Hidromotor” autori: Alecu I., **Antonescu I.**, Cucos I., Dumitru M.

31. Diplomă cu Medalia de Aur la VII-th International Salon of Inventions and New Technologies “New Time”, 22-24 Septembrie 2011, Sevastopol, Ucraina, pentru “Termo-Pneumatical Convertor with Hidro-Engine” autori: Alecu I., **Antonescu I.**, Cucos I., Dumitru M.

32. Premiul special al Centrului “AIUMELI” la al VII-lea Salon Internațional de Invenții și Noi Tehnologii “Timpuri noi”, 22-24 Septembrie 2011, Sevastopol, Ucraina, pentru “Termo-Pneumatical Convertor with Hidro-Engine” autori: Alecu I., **Antonescu I.**, Cucos I., Dumitru M.

33. Premiul special al Mejdunarodnaia Kadrovaia Akademia Kiev la al VII-lea Salon Internațional de Invenții și Noi Tehnologii “Timpuri noi”, 22-24 Septembrie 2011,

Sevastopol, Ucraina, pentru "Termo-Pneumatical Converter with Hidro-Engine" autori: Alecu I., **Antonescu I.**, Cucos I., Dumitru M.

34. Premiul I cu Medalie de Aur la Secțiunea Invenții, Târgul Internațional de Invenții și Idei Practice "Invest Invent" București, 17-23 iunie 2013, organizat de Societatea Inventatorilor din România, - **Ion Antonescu**, Ioan Alecu, Eugen Golgotiu, Iulian Cucos, Catalin-Marius Stroe-S.C. Ruris Craiova.

35. Diplomă cu Medalia de Argint acordată de ANCS la Expoziția Internațională de Invenții, Cercetare Științifică și Tehnologii Noi INVENTIKA, 5-8 octombrie, București, pentru "Turbină Hidraulică de Mică Înălțime" autori: Cucos I., **Antonescu I.**, Alecu I., Matei D.

36. Diplomă cu Medalia de Aur la a XV-a Expoziție Internațională a Cercetării, Inovării și Transferului Tehnologic "INVENTICA 2011", Iași, 8-10 iunie 2011, pentru "Turbină Hidraulică de Mică Înălțime" autori: Cucos I., **Antonescu I.**, Alecu I., Matei D.

37. Diplomă de Excelență și Medalia de Aur, la Salonul Internațional de Inventică "PRO INVENT" Ediția a VIII-a, 2010, Cluj-Napoca, pentru "Pompă cu Rotor Oscilant Acționată cu Viteză de Rotație Mică" autori: Alecu I., **Antonescu I.**, Cuciureanu D., Mihăilă A.

38. Diplomă de Excelență la Salonul Regional al Cercetării 2010, Bacău, organizat de Camera de Comerț și Industrie Bacău, pentru "Pompă cu Rotor Oscilant Acționată cu Viteză de Rotație Mică" autori: Alecu I., **Antonescu I.**, Cuciureanu D., Mihăilă A.

39. Diploma de Onoare acordată de Societatea Inventatorilor din România cu ocazia Târgului de Internațional de Invenții, "INVENT-INVEST SIR 20", Iași, 22-27 noiembrie 2010, și a Jubileului de 20 de ani de la înființarea SIR domnului **Antonescu I.** pentru activitatea desfășurată în domeniul creației tehnice.

40. Diplomă cu Medalia de Aur la al V-lea Salon Internațional de de Invenții și Noi Tehnologii "Timpuri noi", 24-26 Septembrie 2009, Sevastopol, Ucraina, pentru "Pump with Oscilant Rotor Actioned with Low Rotational Speed" autori: Alecu I., **Antonescu I.**, Cuciureanu D., Mihăilă A.

41. Diplomă de Excelență Iași 600 cu Medalia de Bronz, la Salonul Internațional Jubiliar al Cercetării, Invențiilor și Transferului Tehnologic "INVENTICA 2008", Iași, 14-24 mai 2008 pentru "Expert System for Setting The Fit Type, Choosing The Tolerance Fields and Determining of The Limit Deviances in Computer Aided Design" autori: Prună L., **Antonescu I.**, Anghel A. Romanescu C., Slonovschi A.

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6.09.2025

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A. Teza de doctorat.

1. Contribuții privind caracterizarea biocompozitelor reciclate cu destinația electrotehnică, susținută în data de 24.10.2011, Universitatea Tehnică "Gheorghe Asachi" din Iasi, domeniul Inginerie Electrică, conducător de doctorat Prof. Dr. Ing. Ciobanu Romeo Cristian

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62. **M. Aradoaei**, I. Pepenar, Considerations on the Dielectric Properties and Thermal Profile of Geopolymeric Composites with Ferro / Ferrimagnetic Inserts, 8th International Conference on electrical and power engineering, 16-18 Octombrie EPE 2014 - Iași, Romania, Page 891-896, WOS: 000353565300166.

G. Lucrări științifice publicate în reviste din străinătate.

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H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

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I. Lucrări științifice publicate în volumele conferințelor.

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J. Invenții.

1. Brevet de invenție nr. 135946/2022 cu titlul " Procedeu de evaluare a contaminării cu biomolecule a suporturilor pe bază de polierilen tereftalat reciclat", inventatori: Dodi Gianina, Cojocaru Florina Daniela, Popescu Diana, Mihaai Cosmin Teodor, Mihaela Arădoaei, Romeo Cristian Ciobanu

K. Contracte de cercetare.

1. **Director proiect - NEEDS Repowered - Navigând în ape tulburi: Restructurarea orașelor în perioade de criză-** Contract de finanțare 127/2025, Contract de cercetare/finanțare tip COFUND, program 5.8. - Cooperare europeană și internațională, subprogram 5.8.1. - Orizont Europa, durată 35 luni, buget 1.000.000 lei
2. **Director proiect - Tehnologia de fabricare a filmelor conductive anizotropice nanostructurate cu arhitectură adaptabile sub acțiunea câmpului electromagnetic, pentru aplicații electronice și biomedicale-** Contract de finanțare 19/2018, Program PN III - Cooperare Europeană și Internațională - Subprogram 3.2 - Orizont 2020, Tip Proiect - ERANET, COFUND-MANUNET III-AniConFilm-2, durată 24 luni, , buget 388.270 lei
3. **Membru - Danube Wetlands and flood plains Restoration through systemic, community engaged and sustainable innovative actions**, DaWetRest, Contract nr. 101113015/2023, din cadrul HorizonEurope, finanțat prin CE HORIZON Action Grant Budget-Based, durata 36 luni, buget 88.062,50 euro
4. **Membru - Grant pentru susținerea capacității de publicare**, grant intern GI/P10/2021, buget 45.000 lei
5. **Membru - Grant pentru idei de proiect**, grant intern GI/P1/2021_IDEI, , buget 40.000 lei
6. **Membru - Biosenzori bazati pe arhitecturi nanofluidice pentru detectia proteinelor umane (MINaFBioS)**, PN III - ERANET, MANUNET-III, Contract nr. 149/2020, durata 24 luni, buget 432.250 lei
7. **Membru - Membrane nanoporoase pentru pseudolivrarea intratecala a medicamentelor (INTREPIDUS)**, PN III ERANET-EURONANOMED, Contract nr. 193/2020, durata 36 luni, buget 535.700 lei
8. **Membru - Dezvoltarea de bio-senzori prin intermediul unei tehnologii inovative de electroacoperire a structurilor carbonice cu polimeri activi, (CARBIOSENSE)**, Programul MANUNET ERANET, Contract nr. 7-038/ 13.05.2011, durata 33 luni, buget 381.282,62 lei
9. **Membru - Sisteme software cu arhitecturi versatile de management al energiei și de optimizare a indicatorilor de performanță energetică a clădirilor inteligente, dezvoltate în cadrul clusterului euronest IT&C HUB**, Programul Operațional Competitivitate, Contract nr. 70/221_ap2/14.08.2020, My SMIS 130052, durată 27 luni, buget 4.474.125 lei
10. **Membru - Cercetare-dezvoltare de materiale compozite inovative nanostructurate, activabile in camp de radiofrecventa si de microunde, pentru tehnologii reversibile de asamblare cu aplicatii intersectoriale**, Programul Operațional Competitivitate, Contract nr. 119/16.09.2016, ID P_37_757, My SMIS 104089, durată 48 luni, buget 11.140.371 lei

11. **Membru** - *Realizarea inovativă de produse compozite termoplastice cu proprietăți superioare de ecranare electromagnetică prin reciclarea integrată a deșeurilor electronice, (RECEMAT), Programul Operațional Sectorial Creșterea Competitivității Economice, Axa Prioritară 2 – Competitivitate prin CDI, Contract nr. 460/03.04.2013, ID 1372/SMIS 41074, durată 26 luni, buget 3.498.500 lei*
12. **Director proiect** - Transfer de cunoștințe privind realizarea de noi metode de diagnosticare a panourilor din parcuri fotovoltaice, Programul Operațional Competitivitate, Contract subsidiar nr. 126/D10/2022, My SMIS 105567, durată 8 luni, buget 580.000 lei
13. **Director proiect** - Analize Fizico-Chimice, Materiale Nanostructurate Si Dispozitive Pentru Aplicatii In Domeniul Farmaceutic Si Medical Din Romania – AMD-FARMA-MED-RO, Programul Operațional Competitivitate, Contract subsidiar nr. 62/13.04.2022, My SMIS 105725, durată 11 luni, buget 448.605 lei
14. **Director proiect** - Dezvoltarea de materiale compozite ceramice geopolimerice, din deseuri industriale, cu proprietati superioare de ecranare electromagnetica si termica, pentru constructii speciale, Programul EUREKA-EUROSTARS-NEWCOMAT, Contract 316E/15.05.2012, durată 19 luni, buget 367.710 lei
15. **Membru** - Mitigarea riscului pentru sănătatea publică privind contaminanții biochimici ai ambalajelor farmaceutice și alimentare reciclate printr-o nouă metodologie bazată pe analiza spectrală în domeniul THz (THzPET), PN-III-P2-2.1-657PED/2020, durată 18 luni, buget 250.000 lei
16. **Membru** - Analize Fizico-Chimice, Materiale Nanostructurate Si Dispozitive Pentru Aplicatii In Domeniul Farmaceutic Si Medical Din Romania – AMD-FARMA-MED-RO, Programul Operațional Competitivitate, Contract subsidiar nr. 636/16.03.2020, My SMIS 105725, durată 15 luni, buget 630.199 lei
17. **Membru** - Parteneriate pentru transfer de cunoștințe în domeniul materialelor polimere folosite în ingineria biomedicală, Programul Operațional Competitivitate, Contract subsidiar nr. 8733/05.12.2019 - 659/06.12.2019, My SMIS 105689, durată 32 luni, buget 900.000 lei
18. **Membru** - Dispozitive flexibile și elastice printate 4D de captare a energiei piezoelectrice, bazate pe elastomeri inovativi elctro-adaptabili, 4DPrintEN, Proiect cod COFUND - ERANET MANUNET III, Contract de finantare nr. 96/01.06.2019, durată 24 luni, buget 468.100 lei
19. **Membru** - Materiale multifunctionale inteligente pentru aplicatii de inalta tehnologie, Programul Operațional Competitivitate, Contract subsidiar nr. 370/20.02.2019, My SMIS 105726, durată 24 luni, buget 880.000 lei
20. **Membru** - Reciclarea avansata integrata a deseurilor combinate inseparabile de mase plastice si hartie, nereciclabile prin tehnologiile actuale, Programul Operațional Competitivitate, Contract subsidiar nr. 366/11.09.2017 - 15351/13.09.2017, My SMIS 105581, durată 24 luni, buget 900.000 lei
21. **Membru** - Dezvoltarea de panouri compozite izolatoare pe bază de deșeuri de fulgi/pene, pulbere de lemn și plastic reciclat pentru clădiri ecologice tip „green building concept, Programul EUREKA- FEVAL, Contract 308E/19.08.2011, durată 35 luni, buget 390.074 lei

L. Premii, distincții.

1. **Premiul** - Premierea rezultatelor cercetarii UEFISCDI Program 5.2, Subprogram 5.2.3 - Premierea rezultatelor cercetarii - Articole Web of Science, Competitia 2023 - Lista 1 - Cereri premiere pentru articole publicate în anul 2021_aprobate, cu incadrare in bugetul competitiei, pag. 63/79, nr. crt. 873, cod depunere PN-IV-P2-2.3-PRECISI-2023-82452, pentru articolul Megha Sahu, Lakshmi Narasimhan, Ashok M. Raichur, Alexandru Sover, Romeo C. Ciobanu, Nicolae Lucanu, **Mihaela**

- Aradoaei**, *Improving Fracture Toughness of Tetrafunctional Epoxy with Functionalized 2D Molybdenum Disulfide Nanosheets*, Polymers Journal, 2021, Volume 13, Issue 24, 4440, DOI: 10.3390/polym13244440, WOS:000737388000001, ISI web of Science (**Jurnal**).
2. **Premiul** - Premiarea rezultatelor cercetării UEFISCDI Program 5.2, Subprogram 5.2.3 - Premiarea rezultatelor cercetării - Articole Web of Science, Competitia 2023 - Lista 1 - Cereri premiere pentru articole publicate în anul 2021_aprobate, cu încadrare în bugetul competiției, pag. 63/79, nr. crt. 876, cod depunere PN-IV-P2-2.3-PRECISI-2023-82488, pentru articolul Alexandru Sover, Vasile Ermolai, Ashok M. Raichur, Romeo Ciobanu, **Mihaela Aradoaei**, Nicolae Lucanu, *Feasibility of Producing Core-Shell Filaments through Fused Filament Fabrication*, Polymers Journal, 2021, Volume 13, Issue 23, 4253, DOI: 10.3390/polym13234253, WOS:000734564000001 ISI web of Science (Jurnal).
 3. **Premiul** - Premiarea rezultatelor cercetării UEFISCDI - Articole, Competitia 2021, Rezultate evaluare Lista 6_Partial, pag. 124-125, nr. crt. 330, cod depunere PN-III-P1-1.1-PRECISI-2021-67434, pentru articolul V. Stancu, A. Galatanu, M. Enculescu, M. Onea, B. Popescu, P. Palade, M. Aradoaie, R. Ciobanu, L. Pintilie, *Influences of Dispersions' Shapes and Processing in Magnetic Field on Thermal Conductibility of PDMS-Fe₃O₄ Composites*, Materials 2021, Volume 14, Issue 13, 3696.
 4. **Diplomă de aur** pentru *Procedeu și compoziție pentru obținerea de compozite poliolefine/material cheratinic*, la Salonul Internațional de Invenții și Inovații „Traian Vuia”, Timisoara, 10 octombrie 2022

M.Alte realizări semnificative.

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Data: 04.03.2026

Conf. Dr. Ing. Arădoaei Mihaela

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Conf. dr. ing. Aradoaei Sebastian Teodor

A. Teza de doctorat

1. Contribuții privind analiza calității materialelor electroizolante prin metoda spectroscopiei dielectrice, conducător științific prof.dr.ing.Ciobanu Romeo Cristian, susținută public la data de 02.04.2009 în cadrul Universității Tehnice "Gheorghe Asachi" din Iași.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Aradoaei Sebastian Teodor, **Mihaela Aradoaei**, Tehnologii inovative de reciclare și biocompozitare a materialelor din plastic și biomasă, Editura PIM, Iasi, **2023**, ISBN 978-606-13-7816-6, pp. 323.
2. Aradoaei Sebastian Teodor, **Mihaela Aradoaei**, Realizarea biocompozitelor din materiale plastice și biomasă, Editura PIM, Iasi, **2023**, ISBN 978-606-13-7817-3, pp. 199.
3. **Arădoaei Sebastian Teodor**, Adrian Adascalitei, Teoria Circuitelor Electrice II, Editura PIM, Iași, **2022**, ISBN 978-606-13-5006-3, 175 pagini.
4. Capitol de carte **Sebastian-Teodor Aradoaei**, Oana Asiminicesei, Ghid pentru elaborarea capitolului lucrării de diploma cu privire la evaluarea potentialului de valorificare a produsului/tehnologiei sau serviciului proiectat/analizat într-o afacere, Capitolul 14 din volumul 3, Afaceri Digitale, Editura Performantica, Iasi, **2022** ISBN 978-606-685-932-5—. 50 pagini.
5. Aradoaei Mihaela, Romeo Cristian Ciobanu, **Aradoaei Sebastian Teodor**, Caracterizarea biocompozitelor reciclate cu destinația electrotehnică, Editura Pim Iași, **2019**, ISBN 978-606-13-5040-7, pp.192.
6. **Arădoaei Sebastian Teodor**, Adăscăliței Adrian Teoria Circuitelor electrice I, Editura Pim, Iași, **2019**, ISBN 978-606-13-5006-3, 238 pag.
7. **Arădoaei Sebastian Teodor**, Bahrin Vasile, Teoria Circuitelor electrice I Îndrumar de laborator, Editura Pim , Iași, **2019**, 88 pag. 978-606-13-5376-7.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Constantin Mirela Alina, Constantin Lucian Alexandru, **Aradoaei Sebastian**, Aradoaei Mihaela, Bratu Mihai, Vasile Ovidiu, Acoustic Properties of a New Composite Material Obtained from Feather Flour and Recycled Polypropylene, Revista de Materiale Plastice, 2022, vol.:58, pp. 84-93, impact factor: 0.782/2021, DOI10.37358/MP.21.4.5534,(Revista),
2. La Rosa Angela, Gramatikos Sotirios, George Ursan, **Aradoaei Sebastian**, Summerscales Johnd, Ciobanu Romeo, Cristina Schreiner, Recovery of electronic wastes as fillers for electromagnetic shielding in building components: An LCA study, Journal Of Cleaner

Production, 280/2, 2021, impact factor: 11,072/2021, DOI10.1016/j.jclepro.2020.124593,(Revista),

3. Vasile Bahrin, **Sebastian Aradoaei**, Considerations regarding improving performance of the servo motors, Buletinul Institutului Politehnic din Iasi Volumul 65 (69), Numărul 1, Sectia Electrotehnica, Energetica, Electronica, 2019 Editura Politehnia, ISSN 1223-8139, pp. 69-79. 3/2 –pct. 1,50 http://www.bulipi-eee.tuiasi.ro/archive/2019/fasc.1/p5_f1_2019.pdf, (Revista)
4. V. Bahrin, **S. Arădoaei** Optimizing the operation of dc motors in electric drive systems, , Bulletin of the Transilvania University of Brasov vol. 10 (59) Special issue no. 1 - 2018 Series I - International Conference CIBv2018 Civil Engineering and Building Services ISSN 2065-2127 (CD-ROM), pp.301-308 3/2 –pct. 1,50 https://webbut.unitbv.ro/index.php/Series_I/article/view/2390, (Revista)
5. **Aradoaei S.** Plopa O. Symmetrical components evaluation in real time, Buletinul Institutului Politehnic din Iasi Vol. 63 (67), nr. 2, Sectia Electrotehnica, Energetica, Electronica, 2017 Editura Politehnia, ISSN 1223-8139, pp. 27-37. 3/2 –pct. 1,50, http://www.bulipi-eee.tuiasi.ro/archive/2017/fasc.2/p3_f2_2017.pdf, (Revista, Prim autor)
6. Scarlatache Vlad-Andrei, **Aradoaei Sebastian**, Olariu Marius Andrei, Scarlatache Florina, Filip Tudor Alexandru, Simionescu Ramona, Electric Vehicle Architecture Modeling Based on MATLAB and SysML for Discrete and Continuous Simulation, 2023 International Conference on Electromechanical and Energy Systems, SIELMEN 2023 – Proceedings 2023, 4/6 – pct. 0.66 doi.10.1109/SIELMEN59038.2023.10290735
7. Aradoaei Mihaela, Schreiner Oliver, Alexa Ionel, Olteanu Alin, Pintilei Madalina Ancuta, Ciobanu Romeo Cristian, **Aradoaei Sebastian**, Simulating the Interaction of Electromagnetic Radiation with Matter, Within Nano/Micro-Conductive Composite, 2023 International Conference on Electromechanical and Energy Systems, SIELMEN 2023, 4/7 – pct. 0,57 – Proceedings 2023, doi.10.1109/SIELMEN59038.2023.10290731
8. Aradoaei Mihaela, Schreiner Oliver, Lucaci Andreea Maria, Morosanu Vlad, Patrascu Georgiana, Saridache Adrian, Schreiner Cristina, **Aradoaei Sebastian**, Testing the Interaction of Electromagnetic Radiation with Nano/Micro-Conductive Composite Material, 2023 International Conference on Electromechanical and Energy Systems, SIELMEN 2023 – Proceedings 2023, 4/8 – pct. 0,50 doi.10.1109/SIELMEN59038.2023.10290788
9. Bahrin Vasile, **Aradoaei Sebastian**, Anton Mihaita-Emanuel, Direct Current Motor Speed Adjustment Via Indirect Self-Adjusting Regulator, EPE 2022 - Proceedings of the 2022 12th International Conference and Exposition on Electrical and Power Engineering, 4/3 – pct. 1,33, doi 10.1109/EPE56121.2022.9959768
10. Aradoaei Mihaela, Lucaci Andreea Maria, **Aradoaei Sebastian Teodor**, Schreiner Cristina Mihaela, Ciobanu Romeo Cristian, Obtaining Nanocomposite Films With Predefined Thermal Conductivity, With Controlled Anisotropy, EPE 2022 - Proceedings of the 2022 12th International Conference and Exposition on Electrical and Power Engineering, 4/5 – pct. 0.80, doi 10.1109/EPE56121.2022.9959825
11. Vlad-Andrei Scarlatache, **Sebastian, Aradoaei**, Andrei Olariu Marius, Alexandru Filip Tudor, Florina Scarlatache, Gianina Gheorghian, Continuous Improvement in Education Based on Deming Model in Worldwide Context, EPE 2022 - Proceedings of the 2022 12th International Conference and Exposition on Electrical and Power Engineering, 4/6 – pct. 0.66, doi 10.1109/EPE56121.2022.9959078
12. Aradoaei Mihaela, Lucaci Andreea Maria, **Aradoaei Sebastian Teodor**, Schreiner Cristina Mihaela, Nastasache Maria Madalina, Composites with Nano Conductive Channels Architecture Uniformly Distributed Through the Thickness of the Material and Oriented in the Magnetic Field, EPE 2022 - Proceedings of the 2022 12th International Conference and

Exposition on Electrical and Power Engineering, 4/5 – pct. 0.80, doi 10.1109/EPE56121.2022.9959798

13. Andrei, Mona, Pascu, Sebastian Mihail, Aradoaei, Mihaela, **Aradoaei, Sebastian Teodor**, Modeling and simulation of electromagnetic absorption properties of nano-structured composites in the radio frequency/microwave range, **SIELMEN 2021** - Proceedings of the 11th International Conference on Electromechanical and Energy Systems, 4/4 – pct. 1, doi 10.1109/SIELMEN53755.2021.9600270
14. Andrei Mona, Lucaci Andreea-Maria, Aradoaei Mihaela, **Teodor Aradoaei Sebastian**, Design of the nano / micro scale structure of nanostructured composites activable in the radio frequency/microwave range depending on the frequency of the electromagnetic field, **SIELMEN 2021** - Proceedings of the 11th International Conference on Electromechanical and Energy Systems, 4/4 – pct. 1 doi 0.1109/SIELMEN53755.2021.9600282
15. **Aradoaei Sebastian**, Bahrin Vasile, Aradoaei Mihaela, Constantin Mirela Alina, Constantin Lucian Alexandru, Dielectric Spectroscopy Analysis of Composites Obtained from Thermoplastic with Feathers Flour, **EPE 2020** - Proceedings of the **2020** 11th International Conference and Exposition on Electrical And Power Engineering, 4/5 – pct. 0.80 doi 10.1109/EPE50722.2020.9305582
16. Adascalitei, Adrian A, El-Din, Ashraf Salah El-Din Zein, **Aradoaei, Sebastian Teodor**, Temneanu, Marinel Costel, Istrate, Marcel Dumitru, The Blended Teaching and Learning Methods and the Implementation of Online Laboratories in Electrical and Computer Engineering Education Programs, Proceedings of the 23rd International Conference on Interactive Collaborative Learning (ICL), Educating Engineers For Future Industrial Revolutions, **ICL2020**, VOL 2, 2022, volume 1329, pp.136-147, 4/5 – pct. 0.80, DOI10.1007/978-3-030-68201-9_14
17. Adascalitei, Adrian, **Aradoaei, Sebastian**, Blended Teaching and Learning Solutions for Electrical Engineering Study Programs, **2019** International Conference on Electromechanical and Energy Systems (SIELMEN), 9-11 Oct. 2019, Craiova, Romania, Romania Electronic ISBN: 978-1-7281-4011-7/19/2019, 4/2 – pct. 2, WOS:000630287500076
18. Plopa Olga, **Aradoaei Sebastian-Teodor**, Ursan George-Andrei, A New PSpice Implementation of a Three-Phase Induction Machine Model, **2019** International Conference on Electromechanical and Energy Systems (SIELMEN), 9-11 Oct. 2019, Craiova, Romania, Romania Electronic ISBN: 978-1-7281-4011-7/19/2019, 4/3 – pct. 1,33, DOI10.1109/sielmen.2019.8905799
19. Adascalitei, Adrian, **Aradoaei, Sebastian**, Temneanu, Marinel, El-Din Zein El-Din, Ashraf Salah Implement Online Laboratories in Electrical and Computer Engineering Education using Virtual Learning Environments, The 15 th International Scientific Conference eLearning and Software for Education Bucharest, eLSE, April 11-12, **2019** 10.12753/2066-026X-19-159, vol III, pp 162-170, 4/4 – pct. 1, DOI10.12753/2066-026X-19-159
20. Ashraf Salah El-Din Zein El-Din, Adrian Adăscăliței, Marinel Temneanu, **Sebastian Arădoaei** Blended Learning Methodologies and ePedagogical Approaches Used in an Electrical and Computer Engineering Education Program Leading to International Accreditation, Proceedings of the 13th International Conference On Virtual Learning, **ICVL 2018**, Oct. 26-28 Alba Iulia, pp.63-77, 4/4 – pct. 1, WOS:000471080200007
21. **Sebastian Arădoaei**, Adrian Adăscăliței, Blended Learning Approach Applied to Electrical Engineering Courses, Proceedings of the 13th International Conference On Virtual Learning, **ICVL 2018**, Oct. 26-28 Alba Iulia, pp.78-86.(Prim autor), 4/2 – pct. 2, WOS:000471080200008.
22. Bahrin V., **Arădoaei S.**, Considerations on magnetic levitation realized with superconductive materials, 22nd IMEKO TC4 International Symposium and 20th International Workshop on

ADC Modelling and Testing **2017**: Supporting World Development Through Electrical and Electronic Measurements, 2017-September, pp. 508-511. 4/2 – pct. 2, <https://www.imeko.org/index.php/proceedings/6915-considerations-on-magnetic-levitation-realized-with-superconductive-materials> indexat Scopus

23. **Arădoaei S.**, Andrei M., Ciobanu R., Moşneagu M., Bahrin V., Modeling the properties of bio-composites obtained from plastic and wood waste for building applications, 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements, **2017**-September, pp. 504-507. 4/5 – pct. 0,80, <https://www.imeko.org/publications/tc4-2017/IMEKO-TC4-2017-099.pdf> indexat Scopus
24. A.C.Curelaru, A.C. Macovei, **S. Arădoaei**, A.V. Coman, Realization of polymeric coatings in special electrochemical conditions based on electroactive polymer networks for supercapacitor purposes Electrical and Power Engineering (EPE), **2014** International Conference and Exposition Iasi, pp. 877-880, 2014, 4/4 – pct. 1, WOS:000353565300163

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

E. Brevete obținute în întreaga activitate

Data: 23.02.2026

Semnătura:

Conf. dr. ing. Arădoaei Sebastian Teodor

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Conf.dr.ing. Asiminicesei Oana-Maria

A. Teza de doctorat

1. *Cercetări privind controlul și măsurarea poluării electromagnetice*, conducător științific prof. univ. dr. Mihai Crețu, 2009.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Constantin Sărmășanu – **coordonator-Seria: Antreprenoriat pentru ingineri și arhitecți, Coordonator Vol.3 Oana-Maria Asiminicesei-Afaceri digitale** – Capitole:
 - 1.1. Capitolul 1- **Oana-Maria Asiminicesei,**” *Antreprenoriat-trecut și prezent. Economia digitală-Societatea informațională. Antreprenor/Antreprenoriat-Concepte generale*”- Editura Performantica, 2022, ISBN 978-606-685-932-5, pag.14-pag.39 (25 pagini)
 - 1.2. Capitolul 2- **Oana-Maria Asiminicesei** – *”Calitățile și abilitățile unui antreprenor de succes. Gândire și comportament antreprenorial”* - Editura Performantica, 2022, ISBN 978-606-685-932-5, pag.40-pag.46 (6 pagini)
 - 1.3. Capitolul 3- **Oana-Maria Asiminicesei-** *”Sursele de finanțare pentru o idee de afaceri. Etapele autorizării unei afaceri în România”* - Editura Performantica, 2022, ISBN 978-606-685-932-5, pag.47- pag.59 (12 pagini)
 - 1.4. Capitolul 10- **Oana-Maria Asiminicesei** – *”Concepte e-Business. Stadiile și caracteristicile unei afaceri electronice”* Editura Performantica, 2022, ISBN 978-606-685-932-5, pag.199- pag. 207 (8 pagini)
 - 1.5. Capitolul 11- **Oana-Maria Asiminicesei** – *”Noțiuni generale e-Commerce. Modele/Infrastructură/tipuri de site-uri/Modalități de plată on-line”* - Editura Performantica, 2022, ISBN 978-606-685-932-5, pag.208- pag. 220 (12 pagini)
 - 1.6. Capitolul 11- **Oana-Maria Asiminicesei** – *”Securitatea în sistemele de tip E-Business. Politici, servicii și mecanisme de securitate”* - Editura Performantica, 2022, ISBN 978-606-685-932-5, pag.221- pag. 238 (17 pagini)
 - 1.7. Capitolul 14- **Oana-Maria Asiminicesei, Sebastian-Teodor Arădoae-** *”Ghid pentru elaborarea lucrării de diplomă cu privire la evaluarea potențialului de valorizare a produsului/tehnologiei sau serviciului proiectat/analizat într-o afacere”* - Editura Performantica, 2022, ISBN 978-606-685-932-5, pag.258- pag. 308 (50 pagini)
2. Oana Neacșu (Asiminicesei), *”Informatică Aplicată I. Curs didactic”*, 516 pagini – ISBN-978-606-13-5188-6, Editura PIM, Iași, 2019

3. Oana Neacșu (Asiminicesei), *"Informatică Aplicată I. Aplicații de laborator"*, 229 pagini – ISBN-978-606-13-5189-3, Editura PIM, Iași, 2019
4. Oana Neacsu, Alexandru Sălceanu, Marius Păuleț, *"Software de birotică. Teorie și aplicații"*, Ed.PIM, 2018, ISBN 978-606-4816-9, 210 pagini.
5. Oana Neacșu (Asiminicesei), *"Fenomenul de descărcări electrostatice. Considerații teoretice"*, Editura PIM, Iași, 2019, ISBN-978-606-13-5325-5, 118 pagini
6. Andrei Marinescu-Editor, Electromagnetic Compatibility/ Electromagnetic Field. Research and Development in Romania, Ed. A.G.I.R., 2014, Electrical-Power Engineering Series, ISBN-978-973-720-521-6.- Chapter- A. Salceanu, E. Lunca, O. Beniuga, O. Neacsu, S. Ursache- *"Works and Walks in ESD, developed at the Faculty of Electrical Engineering"*- pp.112-118.
7. A. Sălceanu, E. Luncă, Oana. Neacșu, M. Paulet, S. Ursache - *"Compatibilitate Electromagnetică. Aplicații"*, Editura PIM, 2015, ISBN-978-606-13-2812-3, (200 pagini)

C. Lucrări indexate ISI/BDI publicate în ultimii 10 anii

1. MA Olariu, C Hamciuc, OM Neacsu, E Hamciuc, L Dimitrov- " Microwave dielectric properties of polyimide composites based on tio 2 nanotubes and carbon nanotubes." Digest Journal of Nanomaterials and Biostructures, Vol. 14, No. 1, January - March 2019, p. 37 – 44, factor de impact-0,638
2. O.M. Neacșu, O.Beniuga, A. Sălceanu – „Assessment on electric chargespollution in the residential area and laboratory environment”, Environmental Engineering and Management Journal, Martie 2012, Vol. 11, No. 3, pg. 635-640 – factor de impact: 1.43
3. Marius Valerian Paulet, Alexandru Salceanu, **Oana Maria Asiminicesei**, Constantin Dan Neagu- "Electric Field in the Vicinity of High Voltage Deviation Towers", Proceedings of the 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iași, 2020, pp, 452-456, DOI: 10.1109/EPE50722.2020.9305612, ISSN: 2471-6855, ISBN:978-1-7281-8127-1
4. Alexandru Salceanu, Marius Paulet, Bogdan Dumitru Alistar, **Oana Asiminicesei**- *"Upon the Contribution of Image Currents on the Magnetic Fields Generated by Overhead Power Lines"*, 2019 International Conference on Electromechanical and Energy Systems (SIELMEN), Chișinău, pag 1-6, IEEE Explore
5. A.C. Podaru, V. David., **O.M. Neacșu**. „Comparison between electrocardiographic and photoplethysmographic peaks intervals" 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements Volume 2017-September, 2017, Pages 234-238, Code 134087, Indexata Scopus
6. M.V.Paulet, A. Sălceanu, **O.M. Neacșu** - „Ultrasonic radar", Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering, Iasi 2016, pag. 551-554, ISBN: 978-1-5090-6128-0, ISI Web of Knowledge

7. S Ursache, A Salceanu, **O.M. Neacșu** –“Indoor and outdoor measurements of the low frequency magnetic fields in an urban area” Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering, Iasi 2016, pag. 376-379, ISBN: 978-1-5090-6128-0, ISI Web of Knowledge.
8. A. Salceanu, E. Lunca, **O.M. Neacșu**, Fanel Iacobescu- „*Assessing the close field non-ionizing emissions of PC-monitors*” Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering, Iasi 2016, pag. 592-597, ISBN: 978-1-5090-6128-0, ISI Web of Knowledge
9. S. Ursache, A. Sălceanu, **O.M. Neacșu**, -, „*Indoor and Outdoor measurements of the low frequency magnetic Fields in an Urban Area*”, Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering, Iasi 2016, Pag. 376-379, ISBN: 978-1-5090-6128-0, ISI Web of Knowledge
10. S. Ursache, A. Sălceanu and **O.M. Neacșu**, „*Measuring the electric and magnetic fields associated with the electrostatic discharges*”, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Tomul LXI (LXV), Fasc. 4, 2015, Index Copernicus, get CITED, Ulrich's
11. M.V. Păuleț, **O.M. Neacșu**, A. Sălceanu, „*Secured access system based on the recognition of ecg characteristics*”, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LXI (LXV), Fasc. 3, 2015, Secția ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ, Indexata în Index Copernicus, getCITED, Ulrich's

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

1. Andrei Salceanu, Eduard Lunca, **Oana Maria Asiminicesei**, „*Specific Absorption Rate: Comparative Analysis from the Perspective of terms, methodologies, and regulations*”, 15th International Conference on Electromechanical and Power Systems – SIELMEN 2025, Chisinau, Rep. Moldova, Oct. 15-17, 2025,
2. **Oana Maria Asiminicesei**, Ramona Simionescu, Alexandra Abăceoae- "*Studies about changing the labor market after covid-19 pandemic context*", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.10, Issue 1, page no.a360-a364, January-2023, Available:<http://www.jetir.org/papers/JETIR2301046.pdf>,
3. S. Ursache, A. Sălceanu and **O.M. Neacșu**, „*Measuring the electric and magnetic fields associated with the electrostatic discharges*”, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Tomul LXI (LXV), Fasc. 4, 2015, Index Copernicus, get CITED, Ulrich's
4. M.V. Păuleț, **O.M. Neacșu**, A. Sălceanu, „*Secured access system based on the recognition of ecg characteristics*”, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LXI (LXV), Fasc. 3, 2015, Secția ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ, Indexata în Index Copernicus, getCITED, Ulrich's

K. Contracte de cercetare

1. **Membru în echipa de cercetare- Proiect internațional ERANET-EURONANOMED nr. 193/2020:** Membrane nanoporoase pentru pseudolivrarea intratecală a medicamentelor, 2020-2023, Valoare totală contract 432250 lei, director proiect. Romeo Ciobanu
2. **Membru în echipa de cercetare** Chemirezistor serigrafiat pe bază de MXenes electromanipulate cu ajutorul dielectroforezei pentru detecția compușilor organici volatili (COV), 2022-2024, Valoare totală contract 450000 lei, director proiect. Marius Olariu
3. **Membru în echipa de cercetare- Proiect internațional- PNIII - ERANET, COFUND-MANUNET nr. 18/2018, "Tehnologie de fabricare a filmelor conductive anizotropice nanostructurate cu arhitectură adaptabilă sub acțiunea câmpului electromagnetic, pentru aplicații electronice și biomedicale- AniConFilm",** Valoarea totală a contractului: 492100 lei. Valoarea contractului pe 2018- 220674 lei, Valoare pe 2019- 271426 lei, Membri ai echipei: 19. Durata proiectului: 01.04.2018 - 31.03.2020, 2 ani, Director Proiect Conf. Marius Andrei Olariu, (medie grant TUIASI: 2018- 73260 lei)
4. **Membru în echipa de cercetare- Proiect internațional PNIII - ERANET, COFUND-MANUNET, nr. 22/2018, "Sistem de sortare a deșeurilor de construcții și demolări (DCD) bazat pe robotică avansată (STEWART)",** Valoarea totală a contractului: 485137 lei, 2018- 180674 lei, 2019-304463 lei. Membri ai echipei: 16, Durata proiectului: 01.04.2018 - 31.03.2020, Director de Proiect- Prof. Romeo Ciobanu, (medie grant TUIASI: 2018- 73260 lei)
5. **Membru în echipa de cercetare- Proiect internațional - PNIII - ERANET, COFUND-MANUNET, nr. 17/2018, "Îmbunătățirea tehnologiilor de printare pentru fabricarea economică a sistemelor de analiză tip Point of Care" (PRIN TPoC),** Valoarea totală a contractului: 382700 lei, Valoare 2018- 178012 lei, Valoare 2019- 204688 lei, Membri ai echipei: 17. Durata proiectului: 01.04.2018 - 31.03.2020, 2 ani, Director de Proiect- Prof. Cristina Schreiner, (medie grant TUIASI: 2018- 73260 lei), **Membru în echipa de cercetare (5%)**
6. **Membru în echipa de cercetare – Proiect internațional Era Net Cofund, Titlul: " Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetice într-un oraș durabil (SMART URBAN ISLE)",** Contract 83/2016, Valoare proiect: 710.968,5 lei, Durata: 01.06.2016 - 01.06.2018, 2 ani
7. **Membru în echipa de cercetare – Proiect internațional Era Net, Titlul: "Nanomateriale și arhitecturi inovatoare pentru aplicații integrate de captare a energiei piezoelectrice (HarvEnPiez)",** Valoare proiect: 447.750 lei. Contract 50/2016, Durata: 01.06.2016 - 01.06.2019, 3 ani
8. **Membru în echipa de cercetare – Proiect internațional Era Net, Titlul: " Senzori integrați cu caracteristici microfluidice folosind tehnologia LTCC (INTCERSEN)",** Contract 9/2015, Valoare proiect: 468.000 lei., Durata: 02.11.2015 - 29.12.2017, 2 ani

9. Membru în echipa de cercetare – „*Retea wireless de senzori pasivi de hidrogen de tip flex-on-chip pe baza de olc-uri (onion-like carbon) manipulate cu ajutorul dielectroforezei-**H2Sense***” Valoare TUIASI 685792,00 - 2 ani, 2018-2020.

Data: 25.02.2026

Semnătura:

Conf. univ. dr. ing. Asiminicesei Oana

Lista de lucrări în domeniul de studii universitare de licență Inginerie Electrică

Numele și prenumele: **Ș.I dr. ing. Baci Alina Georgiana**

A. Teza de doctorat.

Stan (Baci) Alina Georgiana, *Cercetări privind managementul surselor de energie de pe vehicule electrice hibride* (2012), Universitatea Tehnică "Gheorghe Asachi" din Iași, Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată, domeniul: Inginerie Electrică, coordonator științific Prof. Dr. Ing. Gheorghe Livinț, perioada studiilor doctorale: octombrie 2009 – octombrie 2012, susținută public la data de 27.10.2012.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

- Gheorghe Livinț, **Baci Alina-Georgiana**, *Sisteme de control robust*, Ed. Matrix Rom București, ISBN 978-606-25-0542-4, 2020

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

- **Baci A.G.**, Livinț G., Irimia D.C., Poboroniuc M.S., *Battery/Supercapacitor Hybridization – Solution to improve efficiency of a vehicular system*, Conferința Națională a Acțiunilor Electrice, Iași, 7-8 Iunie 2018.
- Irimia D.C., **Baci A.G.**, Sticea D.A., Poboroniuc M.S., *New Fes-robotic glove hyybrid system for hand motor functions rehabilitation*, Conferința Națională a Acțiunilor Electrice, Iași, 7-8 Iunie 2018.
- **Stan A.G.**, Adam G., Livinț G., Munteanu C., *"Simulation and analysis of a fuel cell/battery hybrid vehicular power system"* – 4th International Symposium on Electrical Engineering and Energy Converters, pg. 171-176, 22nd-23rd September 2011, Suceava, Romania
- Adam G., **Stan A.G.**, Livinț G., *A Matlab graphical user interface for studying brushless dc motor control* – 4th International Symposium on Electrical Engineering and Energy Converters, pg. 251-254, 22nd-23rd September 2011, Suceava, Romania

- **Stan A.G.**, Munteanu C., Livinț G., Adam G. *Technological challenges for successful development of a hybrid electric vehicle*, The 7th International Conference Management of Technological Changes, MTC 2011, pg. 609-612, 1-3rd September 2011, Alexandroupolis, Greece
- Adam G., **Stan A.G.**, Livinț G. *Impact of poor power quality in household equipment and how to diminish it*, The 7th International Conference Management of Technological Changes, MTC 2011, pg. 433-436, 1-3rd September 2011, Alexandroupolis, Greece
- **Stan A.G.**, Livinț G., *Utilizarea transformatei Wavelet în analiza și filtrarea semnalelor* – Al II-lea Simpozion Stiințific Studentesc Național ELStudis, 26-27 Octombrie 2010, Iasi, Romania.
- **Stan A.G.**, Livinț G., “*A Wavelet based energy management strategy for a fuel cell power system*” – 6th International Conference on Electrical and Power Engineering, EPE2010, Iasi, Romania.

I. Lucrări științifice publicate în volumele conferințelor.

- **Aida Baltag, Gheorghe Livint, Alina Baci, Samir Bellarbi** *Design of Hinfinity robust controllers for wind turbines based on DFIG*, **EPE 2022 - Proceedings of the 2022 12th International Conference and Exposition on Electrical And Power Engineering, 2022, Iasi, Romania**
- Alexandru Mitocaru, Marian-Silviu Poboroniuc, Danut Irimia, Silvia Placinta, Alina Baci *Brain-Computer Interface movement control for humanoid robot*, **EPE 2022 - Proceedings of the 2022 12th International Conference and Exposition on Electrical And Power Engineering, 2022, Iasi, Romania**
- **Aida Baltag, Gheorghe Livint, Alina Baci** *Robust control structure for wind turbine based on DFIG*, Conferinta Nationala a Actionarilor Electrica, Editia XX Timisoara, 12-13 mai 2022
- **Aida Baltag, Gheorghe Livint, Lucian Belehu, Alina Georgiana Baci**, “Application of feedback linearization method to wind turbines with PMSG for extracting maximum power from wind energy”, 2023 10th International Conference on Modern Power Systems (MPS), 21-23 June 2023, Cluj-Napoca Romania
- Marian-Silviu Poboroniuc , Andrei Iulian Roman, Radu Ionascu, Teodora Piseru, Andrei Piseru, Danut Irimia, Alina Baci, Alexandru Mitocaru, “*Hybrid FES&Mechatronic devices to assess and support rehabilitation in stroke people*”, The XXVII international Conference “INVENTICS 2023 – Science of creativity”, Iasi, Romania
- Florin Andrei Rusu, Gheorghe Livint, **Alina Baci**, *Analysis of hybrid energy storage systems based on photovoltaic panel, supercapacitors and battery for electric vehicles*, Environmental Engineering and Management Journal, Vo.19, No.1, 121-129, January 2020.
- Danut Constantin Irimia ; Alexandra Mitocaru ; **Alina Georgiana Baci** ; Marian Silviu Poboroniuc *Steady-State Visual Evoked Potentials-based Control of a Mobile Robot Platform as a Preamble to Support Paraplegics Mobility*, 2019 E-Health and Bioengineering Conference (EHB),2019, Iasi Romania.
- Rusu F.A., **Baci A.G.**, Livinț G., *Applicability of Fuel Cell in Electric Vehicles* , Proc. of 18-th International Conference on Electrical and Power Engineering EPE2018, Iași, România, 18-19 Oct. 2018, indexata IEEE.

- M.S. Poboroniuc, D.C. Irimia, **A. Baci**, T. Bondar, I.A. Nitica, A.E. Piseru, *A Fuzzy Controller to Support FES-Based Sitting-Down in Paraplegia*, Proc. of 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), DOI: 10.1109/ICEPE.2018.8559951, indexata IEEE.
- **Baci A.G.**, Livinț G., *Wavelet Transform and Neural Network Based Control Strategy for Hybrid Energy System*, Proc. of 11-th International Conference on Electromechanical and Power Systems SIELMEN2017, Chișinău, Rep. Moldova, 12-13 Oct. 2017.
- Danut Irimia, Marian Poboroniuc, Florin Serea, **Alina Baci**, Radu Olaru, *Controlling a FES-EXOSKELETON Rehabilitation System by Means of Brain-Computer Interface*, 2016 International Conference and Exposition on Electrical and Power Engineering, indexed IEEEExplore and Reuters WOS, pp.352-355, 20-22.10.2016, RO, ISBN: 978-1-5090-6128-0, IEEE Catalog Number: CFP1647S-USB, DOI: 10.1109/ICEPE.2016.7781361.
- **Stan (Baci) A.G.**, Livinț G., *Control strategies for hybrid electric vehicles with two energy sources on board* - 2014 International Conference and Exposition on Electrical and Power Engineering, 8th edition, 16-18 October 2014, Iași, România.
- **Stan (Baci) A.G.**, Livinț G., *Multistep – Ahead Prediction of Power Demand using a sliding Window Technique and Neural Networks* - 2012 International Conference and Exposition on Electrical and Power Engineering, 7th edition, 25-27 October 2012, Iasi, Romania.
- Adam G., **Stan (Baci) A.G.**, Livinț G., *An adaptive hysteresis band current control for three phase shunt active power filter using Fuzzy logic* – 2012 International Conference and Exposition on Electrical and Power Engineering, 7th edition, 25th-27th October 2012, Iasi, Romania.
- **Stan (Baci) A.G.**, Adam G., Livinț G. *Using Wavelet transform and neural network algorithm for power demand prediction* - 26th European Conference on Modelling and simulation, ECMS 2012, 29th May-1st June 2012, Koblenz, Germany.
- Adam G., **Stan (Baci) A.G.**, Livinț G. *Improved BLDC control algorithm for reducing source current harmonics. Simulation study* - 26th European Conference on Modelling and simulation, ECMS 2012, 29th May-1st June 2012, Koblenz, Germany.
- Adam G., **Stan A.G.**, Livinț G. *A Matlab-Simulink approach to shunt active power filters* - 25th European Conference on Modelling and simulation, ECMS 2011, pg. 205-210, 7-10th June 2011, Krakow, Poland.

J. Invenții.

K. Contracte de cercetare.

- Membru în cadrul proiectului ROSE 185/SGU/NC/II, cu titlul *Creșterea gradului de retenție în primul an de studii universitare în inginerie electrică și energetică prin reducerea abandonului și creșterea promovabilității*, acronim *ProElectro* cu perioada de desfășurare 11.09.2019 - 10.09.2022, valoarea totala a finantarii 699789 lei.
- PNIII proiect, nr. 25PTE /2020, cu titlul *Mănuși mecatronice textile inteligente pentru recuperarea mâinii la persoanele cu accident vascular cerebral (MANUTEX)*, 2020-2022, Responsabil proiect Poboroniuc Marian-Silviu.
- PNIII proiect, nr. TE114 /2020, cu titlul *Sistem hibrid BCI-Exoschelet pentru recuperarea membrelor superioare (HBES)*, Director proiect Irimia Dănuț-Constantin.
- IG proiect P20_IDEI/2021: *Control methods for humanoid robots using Brain*

Computer Interface, coordonator de proiect: Baci Alina-Georgiana, Project Ideas Grant Competition organized by TUIASI within HORIZON Europe Program, 2021

- Membru in echipa de implementare a proiectului **PEO - *Primul STEM student din familie***, ID 326591, proiect cofinanțat prin Programul Educație și Ocupare (PEO) 2021-2027.

L. Premii, distincții.

M. Alte realizări semnificative.

Data,
10.03.2026

Nume, semnătura

Baci Alina Georgiana

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Baciu Ioana

A. Teza de doctorat

Baciu, Ioana, *Nature and Culture in the American Gothic*, 2020, Universitatea „Alexandru Ioan Cuza” din Iași, domeniul filologie, coordonator prof. univ. dr. Codrin Liviu Cuțitaru

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

Baciu, Ioana, *Nature and Culture in the American Gothic*, Editura Prouniversitaria, București, 2023, 222 p.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

MUIRIS Ó LAOIRE, IOANA BACIU, HELEN BRAUND, KRISTIN BROGAN, EVAGRINA DÎRȚU, MARIAN HURLEY and SHEILA WALSH, “Internationalisation and Interculturalism in Three European Contexts: A Brief Review of Literature”, *The Bulletin of the Polytechnic Institute of Iași*, Socio-Humanistic Sciences Section, a journal published by “Gheorghe Asachi” Technical University of Iași, no 1-2, vol. 71 (75) / 2025, pp. 9-22

Baciu, Ioana, Recenzie a volumului „Crime Fiction as World Literature”, Louise Nilsson, David Damrosch, and Theo D’haen, Bloomsbury Academic, 2017, în *VTU Review: Studies in the Humanities and Social Sciences*, vol.6, no.1, 2022, pp.75-76, doi: 10.54664/ZAEI2131

Baciu, Ioana, „Gheorghe Asachi” Technical University of Iasi, Recenzie: Maggie O’Farrell, *Hamnet*, Tinder Press, 2020, *Les Cahiers Linguaték*, ISSN 2559-7752, ISSN-L 2559-7752, *Mémoire et Oubli*, nr. 9-10/2021, pp. 197-200, indexare Fabula.org. CEEOL; <http://limbistraine.tuiasi.ro/images/8.%20Centrul%20de%20limbi%20moderne/LesCahiersLinguaték9-10.pdf>

Baciu, Ioana, *Medical Gothic Masculinities in Bram Stoker’s Dracula*, *Linguaculture*, 12:1, 2021, pp. 77-86, DOI: 10.4773/lincu-2021-1-0188

Baciu, Ioana, „Gheorghe Asachi Technical University of Iasi, *Buletinul Institutului Politehnic Iasi*, Secția Socio-Umane, Volumul 67 (71), nr. 1-2/2021, *Writing is Masculine, Gossip is Feminine: American Myths in Shirley Jackson’s “The Possibility of Evil”*, pp. 39-52

Baciu, Ioana, *Rewinding a Clockwork Self-Disintegration and Unity in The British Literature of the 60s: The Golden Notebook and A Clockwork Orange*, *Romanian Journal of Literary Studies*, nr. 5/2014, ISSN 2248-3004, pp. 619-626

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

Baciu, Ioana, Reinterpreting the Frankenstein Myth in Yorgos Lanthimos' *Poor Things* (2023), Les Cahiers Linguaték 15-16 / 2024, pp 251-260, volumul conferinței Mad Science: Innovation, Genius, Madness, 10-11 mai 2024, Universitatea Tehnică „Gheorghe Asachi” din Iași, Iași,

http://limbistraine.tuiasi.ro/images/8.%20Centrul%20de%20limbi%20moderne/001_Les%20Cahiers%20Linguaték_vol.VIII_nos.15-16.pdf

Baciu, Ioana, How Well Does Political Correctness Sell? Portraying Racism for the Masses in *The Help* (2011) and *Django Unchained* (2012), publicat în volumul conferinței Communication, Context, Interdisciplinarity, 3rd Edition, Tîrgu Mureș, 23-24 octombrie 2014, Institutul de Studii Multiculturale Alpha în parteneriat cu Universitatea “Petru Maior” din Tîrgu Mureș și Institutul de studii socio-umane “Gheorghe Șincai” al Academiei Române, ISSN 2069— 3389, pp. 211-218

Baciu Ioana, Ted Hughes and R. S. Thomas —Advocates of Ecotheology?, Literature, Discourse and Multicultural Dialogue 2nd Edition, Tîrgu Mureș. 4-5 decembrie 2014, Institutul de Studii Multiculturale Alpha în parteneriat cu Universitatea “Petru Maior” din Tîrgu Mureș și Institutul de studii socio-umane “Gheorghe Șincai” al Academiei Române, pp. 991-998

J. Invenții

K. Contracte de cercetare

L. Premii, distincții

M. Alte realizări semnificative

Data,

lect. dr. Ioana BACIU

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

BĂCĂIȚĂ ELENA SIMONA

A. Teza de doctorat

Instituție: Universitatea „Al. I. Cuza” Iași

Perioada: 2002 - 2007

Coordonator: Prof. Dr. Agop Maricel

Titlul tezei: „Tranziții de fază în plasmă de descărcare”

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

1. M. Agop, D. Vasincu, D. Timofte, **E.S. Bacaita**, A. Agop, S.A. Irimiciuc, *Complex Systems with Self-Elimination of Dissipation with Implication in BioStructural Behavior Via Nondifferentiability*, Intech Publishing House, Rijeka Croația, pp. 23-55, 2017

2. M. Agop, C. Buzea, **S. Băcăiță**, M. Agop, M. Popa, „*Quantum Effects Through a Fractal Theory of Motion*”, Intech Publishing House, Rijeka Croația, pp. 723-779, 2013

3. M. Agop, D. Magop, **S. Băcăiță**, „*Fractal hydrodynamic model and its implications*”, *New developments in hydrodynamics research*, Nova Science Publishers Inc. New York, pp. 159-211, 2012.

4. I. Ionita, **S. Băcăiță**, A. Antici, E. Poll, P.D. Ioannou, M. Agop, *An extended model of the scale relativity theory and its implications. Some properties of matter*”, *The fractal and its implications in the material science*, Athens University Press, pp.67-97, 2008

5. M. Gartu, **S. Băcăiță**, T. Dandu Bibiri, M. Agop, *Weyl-Dirac gravitation and fractal space-time*”, *The fractal and its implications in the material science*, Athens University Press, pp. 98-128, 2008

6. M. Agop, P. Vizureanu, **S. Băcăiță**, C. Bahrim, *On the plasma-superconducting tube interaction by means of the electrical double layers*, *Particles and Fields*, Athens University Press, pp. 315-324, 2005

7. S. Gurlui, M. Agop, M. Strat, G. Strat, **S. Băcăiță**, *Experimental and theoretical investigations of the anode double layers*, *Particles and Fields*, Athens University Press, pp. 289-302, 2005

8. M. Agop, C. Stan, D. Alexandroaiei, **S. Băcăiță**, *Quasistatic and dynamic properties of the DC or AC current driven double layers*, *Particles and Fields*, Athens University Press, pp. 273-287, 2005

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

1. **Bacaita Elena Simona**, Ciobanu Iulia Brindusa, Coman Tudor, Nechifor Delia Cristina, Carp Liliana, Antici Andina, *Îndrumar lucrări laborator Fizică - Experimenteaza, invata, descopera*, Editura Performantica, ISBN 978-630-328-164-3, 2025

2. **Bacaita Elena Simona**, *Curs Fizică Generală*, Ed. Performantica, 137 pag., 2023

3. **Bacaita Elena Simona**, *Fizică Generală – Îndrumar de laborator*, Ed. Performantica, 117 pag., 2023

4. **Bacaita Elena Simona**, *Îndrumar de lucrări practice pentru disciplina Fizica*, Ed. Performantica, cap. 11 și 14, 16 pag., 2023

5. M. Agop, **S. Băcăiță**, *Spatiul-timp fractalic si straturi duble in plasmă de descarcare*, Editura Ars-Longa Iasi, 210 pg., 2007

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. G. Vochita, A. N. Cadinoiu, D. M. Rata, L. I. Atanase, M. Popa, A. Mahdiah, C. T. Mihai, A. B. Stache, C. V. Moldovan, **E. S. Bacaita**, I. P. Condriuc, D. Gherghel, *Comparative In Vitro Study between Biocompatible Chitosan-Based Magnetic Nanocapsules and Liposome Formulations with Potential Application in Anti-Inflammatory Therapy*, Int. J. Mol. Sci., 25(15), 2024, doi: 10.3390/ijms25158454

2. C.L. Logigan, C. Delaite, M. Popa, **E. S. Bacaita**, C.E. Tiron, C. Peptu, C. A. Peptu, *Poly(ethylene glycol) Methyl Ether Acrylate-Grafted Chitosan-Based Micro- and Nanoparticles as a Drug Delivery System for Antibiotics*, Polymers, 16(1), 144, 2024, doi: 10.3390/polym16010144

3. **E. S. Bacaita**, D. M. Rață, A. N. Cadinoiu, V. Ghizdovăț, M. Agop, A. C. Luca, *Drug release from nanoparticles (polymeric nanocapsules and liposomes) mimed through a multifractal tunneling-type effect*, Polymers, 15(4), 1018, 2023, doi: 10.3390/polym15041018

4. C. A. Peptu, **E. S. Băcăiță**, C. L. Savin (Logigan), M. Luțcanu, M. Agop, *Hydrogels based on alginates and carboxymethyl cellulose with modulated drug release—an experimental and theoretical study*, Polymers, 13, 4161, 2021

5. **E. S. Băcăiță**, C. A. Peptu, C. L. Savin (Logigan), M. Luțcanu, M. Agop, *Manifest/non-manifest drug release patterns from polysaccharide based hydrogels—case study on cyclodextrin— κ carrageenan crosslinked hydrogels*, Polymers, 13, 4147, 2021

6. A. N. Cadinoiu, D. M. Rață, L. I. Atanase, C. T. Mihai, **S. E. Băcăiță**, M. Popa, *Formulations based on drug loaded aptamer-conjugated liposomes as a viable strategy for the topical treatment of basal cell carcinoma—in vitro tests*, Pharmaceutics, 13, 866, 2021

7. C. Mihalache, D. M. Rata, A.N. Cadinoiu, **E. S. Bacaita**, et. al., *Bupivacaine-loaded chitosan hydrogels for topical anesthesia in dentistry*, Polymer International, 69, 11, 1152 - 1160, 2020

8. A. Cadinoiu, **E. S. Bacaita**, C. Mihalache, et. al, *In vitro behaviour of Aptamer-Functionalized Polymeric Nanocapsules Loaded with 5-Fluorouracil for Targeted Therapy*, Materials Science & Engineering C, 103, 109828, 2019

9. G. Cioca, M. Pinteala, **E. S. Bacaita**, I. Oprea, I. C. Tanasa, S. R. Volovat, V. S. Dragan, S. Trocaru, C. Anton, *Nonlinear Behaviors in Gene Therapy Theoretical and experimental aspects*, Materiale Plastice, 55, 3, p. 340-343, 2018

10. **E. S. Bacaita**, C. S. Stan, M. Agop, G. Cioca, *Spectral Properties of HEMA/poly(HEMA) as Ligand in Luminescent Europium Based Complexes Through Computational Investigation*, Rev. Chim., 69, 9, p. 2430-2434, 2018

11. G. Cioca, **E.S. Bacaita**, M. Agop, C. Lupascu Ursulescu, *Anisotropy Influences on the Drug Delivery Mechanisms by Means of Joint Invariant Functions*, Comput. Math. Method Med., no. 5748273, 2017
12. A. Grigorovici, **E. S. Bacaita**, V.P. Paun, C. Grecea, I. Butuc, M. Agop, O. Popa, *Pairs Generating as a Consequence of the Fractal Entropy: Theory and Applications*, Entropy-Switz., 19, 3, 128, 2017.
13. **E. S. Bacaita**, M. Agop, *A multiscale mechanism of drug release from polymeric matrices: confirmation through a nonlinear theoretical model*, Phys. Chem. Chem. Phys., 18, 21809-21816, 2016
14. **E. S. Bacaita**, B. C. Ciobanu, M. Popa, et. al., *Phases in the temporal multiscale evolution of the drug release mechanism in IPN-type chitosan based hydrogels*, Phys. Chem. Chem. Phys., 16, 25896-25905, 2014
15. L. Balaita, J. F. Chailanb, Xuan Hoan Nguyenc, **S. Bacaita**, M. Popa, *Hybrid Chitosan-Gelatine magnetic polymer particles for drug release*, J. Optoelectron. Adv. M., 16, 11-12, 2014, p. 1463 – 1471.
16. A. Durdureanu-Angheluta, **S. Băcăiță**, V. Radu, et. al., *Mathematical Modelling Of The Release Profile of Anthraquinone-Derived Drugs Encapsulated On Magnetite Nanoparticles*, Rev. Roum. Chim., 58, no. 2-3, pp. 217-221, 2013.
17. V. Radu, **S. Băcăiță**, A. Uliniuc, M. Popa, S. Susanu, *Fractal Hydrodynamic Model for Drug Release Processes from Starch Based Hydrogels*, Materiale Plastice , vol. 50, no. 1, pp. 18-22, 2013.
18. [A. Uliniuc](#), [T. Hamaide](#), [M. Popa](#), **S. Băcăiță**, *Modified starch based hydrogels crosslinked with citric acid and their use as drug delivery systems for levofloxacin*, Soft Materials, vol. 11, no. 4, pp. 483-493, 2013, doi:10.1080/1539445X.2012.710698.
19. **E. S. Băcăiță**, C. Bejinariu, B. Zoltan et. al, *Nonlinearities in drug release process from polymeric microparticles: long –time-scale behaviour*, J. Appl. Math., ID 653720, doi:10.1155/2012/653720, 2012
20. D. Magop, **S. Băcăiță**, C. Peptu, M. Popa, M. Agop, *Non-differentiability at mesoscopic scale in drug release processes from polymer microparticles*, Materiale Plastice, vol. 49, no. 2, pp. 101-105, 2012
21. S. Gurlui, M. Agop, M. Strat, G. Strat, **S. Băcăiță**, A. Cerepaniuc, *Some experimental and theoretical results an the anodic patterns in plasma discharge*, Phys. of Plasmas 13, pp. 1-10, 2006
22. M. Agop, D. Alexandroaiei, A. Cerepaniuc, **S. Băcăiță**, *El Naschie space-time and patterns in plasma discharge*, Chaos, Solitons & Fractals 30, pp. 470-489, 2006
23. S. Gurlui, M. Agop, M. Strat, G. Strat, **S. Băcăiță**, *Experimental and Theoretical Investigations of Anode Double Layer*, Japanese Journal of Applied Physics 44, 5A, pp. 3253-3259, 2005

G. Lucrări științifice publicate în reviste din străinătate

1. **S. Băcăiță**, C. Urîtu, M. Popa, A. Uliniuc, C. Peptu, M. Agop, *Drug release kinetics from polymer matrix through the fractal approximation of motion*, Smart Materials Research, article ID 264609, doi:10.1155/2012/264609, 2012.

M. Agop, D. Magop, **E. S. Băcăiță**, *Fractal Approximation of Motion and Its Implications in Quantum Mechanics*, Open J. Microphysics, vol. 2, pp. 33-45, doi:10.4236/ojm.2012.23005, 2012

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

1. S. Băcăiță, F. Mocci, *The influence of the starting structure and water model on the conformation transition of poly(n-isopropylacrylamide) thermoresponsive polymer - in silico studies*, Buletinul Institutului Politehnic Iasi, 68(72), No. 2, 2022, doi: 10.2478/bipmf-2022-0007
2. S. Băcăiță, L. Ciobanu, M. Popa, A. Iancu, L. Eva, M. Agop, *Non-linearities in cancer cells migration models*, Buletinul Institutului Politehnic Iasi, LVIII(LXII), Fasc. 2, pp. 73-83, 2012.
3. V. Radu, S. Băcăiță, F. Brinza, B. Constantin, M. Agop, *Fractal model of nucleation mechanism in the electrodeposition of copper*, Buletinul Institutului Politehnic Iasi, LVIII(LXII), Fasc. 2, pp. 63-73, 2012.
4. S. Băcăiță, V. Radu, F. Brinza, B. Constantin, M. Agop, *Some implications of fractality in the dynamics of the electrodeposition processes*, Buletinul Institutului Politehnic Iasi, LVIII(LXII), Fasc. 2, pp. 31-43, 2012.
5. Brinza, V. Radu, S. Băcăiță, M. Agop, *Chaos and self-structuring in electrodeposition processes*, Buletinul Institutului Politehnic Iasi, LVIII(LXII), Fasc. 2, pp. 55-63, 2012.
6. S. Băcăiță, M. Agop, *O abordare teoretică a straturilor duble anodice*, Buletinul Institutului Politehnic Iasi, LI (LV), Fasc. 3-4, pp. 103-108, 2005

I. Lucrări științifice publicate în volumele conferințelor

1. E. S. Băcăiță, F. Mocci, *In silico studies of thermoresponsive polymers*, TIM 20-21 Physics Conference, 2021
2. P. Horlescu, C. S. Stan, E. S. Băcăiță, *Highly efficient photonic conversion mediums based on polymer complexes for applications in light emitting devices*, Optics & Photonics International Congress 2018 – Opic-Ledia, 2018
3. J. Desbrieres, M. Popa, C. Peptu, B. Ciobanu, S. Băcăiță, *Liposome loaded chitosan hydrogels: A promising way to control the burst effect in drug release*, 4th Us-México Binational Symposium on Advances in Polymer Science MACROMEX, Mexico, 2017
4. J. Desbrieres, M. Popa, C. Peptu, S. Băcăiță, *Liposome loaded chitosan hydrogels: a promising delayed release kinetics mechanism*, 10th World Biomaterial Congress, 17-22 May 2016.

J. Invenții

1. C. S. Stan, P. Horlescu, M. Agop, C. A. Peptu, E. S. Băcăiță, *Preparation of photoluminescent aerogel used in lighting source, involves preparing carbon dot-based nanostructure doped with trivalent yttrium using yttrium trichloride and N-hydroxysuccinimide and introducing into polymer matrix*, RO133780-A2, 2018

K. Contracte de cercetare

L. Premii, distincții

M. Alte realizări semnificative

Data,

10.03.2026

Conf. dr. fiz. Elena Simona Bacaita

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Prof.univ.ab.dr.ing. Marcelin BENCHEA

A. Teza de doctorat

Cercetări privind influența zonelor plastice interioare asupra stării de tensiuni și deformării la solicitarea de contact, 2009, Universitatea Tehnică „Gheorghe Asachi” din Iași.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

1. Spiridon Crețu, Mihaela Bălan, Marcelin BENCHEA, Ana Tufescu, Ciprian Stamate, “Organe de mașini. Lucrări”, Editura Tehnopress, Iași, ISBN 978-606-687-014-6, 260 pg., 2013
2. Marcelin BENCHEA, “Mecatronica Automobilului. Lucrări de laborator”, Editura Politehniun, Iași, ISBN 978-973-621-494-3, 140 pg., 2020.
3. Marcelin BENCHEA, “Impactul zonelor plastice interioare asupra comportării tribologice și a durabilității contactelor de rostogolire”, Editura Politehniun, Iași, ISBN 978-973-621-493-6, 140 pg., 2020.
4. Marcelin BENCHEA, Flavian Farcaș, “Mecatronica Automobilului. Echipamente de management și control”, Editura Politehniun, Iași, ISBN 978-973-621-502-5, 165 pg., 2021.
5. Marcelin BENCHEA, Flavian Farcaș, “Mecatronica Automobilului. Echipamente de siguranță și confort”, Editura Politehniun, Iași, ISBN 978-973-621-503-2, 165 pg., 2021.
6. Marcelin BENCHEA, Mihaela-Rodica Bălan, “Construcția și calculul sistemelor de control al mișcării autovehiculelor - Îndrumar de laborator”, Editura Universității Tehnice “Gheorghe Asachi” din Iași, ISBN 978-973-621-539-1, 210 pg., 2024.
7. Marcelin BENCHEA, “Sisteme Mecatronice la Autovehicule Hibride și Electrice”, Editura Universității Tehnice “Gheorghe Asachi” din Iași, ISBN 978-973-621-551-3, 280 pg., 2024.
8. Marcelin BENCHEA, “Cercetări privind îmbunătățirea performanțelor și a unor caracteristici ale sistemelor mecanice”, Editura Tehnopress, Iași, ISBN 978-606-687-523-3, 140 pg., 2024.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

1. Marcelin BENCHEA, “Echipamente Mecatronice ale Automobilului”, 350 pg., 2021 (disponibil în format pdf pe Web: <https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/>).
2. Marcelin BENCHEA, “Echipamente Mecatronice la Automobile. Îndrumar”, 165 pg., 2021 (disponibil pe Web: <https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/>).

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. Crețu S., **Benchea M.**, Iovan-Dragomir A., “On basic reference rating life of cylindrical roller bearings. Part II - Elastic-Plastic Analysis”, Journal of the Balkan Tribological Association, **IF = 0.737**, ISSN 1310-4772, Vol. 22, No 1, pp.272-280, 2016.
2. Drăgan E., Odri G.A., **Benchea M.**, Ferariu D., Zugun-Eloae F., Geletu G., Galeșanu C., Haba D., Melian G., “Strontium ranelate effects on inorganic bone grafts in maxillary sinus floor augmentation”, Revista de Chimie, **IF = 1.755**, ISSN 0034-7752, vol. 67, nr. 3, pp.512-516, 2016.
3. Istrate B., Munteanu C., Crimu C.I., Strugaru S.I., **Benchea M.**, Earar K., „Morphological and tribological aspects of some ZrO₂ coatings on Mg-Ca biodegradable alloys”, Indian J. of Eng. &

- Mat. Sci., **IF = 0.7**, ISSN 0971-4588, vol. 23, pp.418-424, 2016.
4. Mihai Rusu, Daniela Ioniță, **Marcelin Benchea***, Vlad Cârlescu and Dumitru Olaru, „*Friction of the polymers. Experimental results and analytical model*”, Applied Mechanics and Materials, Vol. 823, pp.473-478, Trans Tech Publications, Elveția, 2016.
 5. Bujoreanu C., **Benchea M.**, „*Experimental study on HVAC sound parameters*”, IOP Conf. Ser. - Mat. Sci. and Eng., vol. 147(1), 012051, 2016.
 6. Bujoreanu C., **Benchea M.**, „*Some considerations on noise monitoring for air handling equipments*”, IOP Conf. Ser. - Mat. Sci. and Eng., vol. 147(1), 012066, 2017.
 7. Bujoreanu C., **Benchea M.**, „*Experimental investigation of noise characteristics for HVAC silencers*”, MATEC Web Conf., vol. 112, 07001, 2017.
 8. O. Mocănița, D. Chicet, **M. Benchea**, B. Istrate, C. Munteanu, „*Coating of Liquid Wood Sheets*”, Mater. Sci. Forum, Vol. 907, pp.134-139, 2017.
 9. C. Florea, C. Bejinariu, C. Savin, B. Istrate, **M. Benchea**, R. Cimpoeșu, „*Adhesion Characterisation of Complex Ceramics Thin Layers Deposited on Metallic Substrate*”, Materials Science Forum, Vol. 907, pp.126-133, 2017.
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G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

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22. R.G. Chelariu, **M. Benchea**, R. Cimpoeșu, O. Rusu, V. Manole, D.P. Burduhos-Negris, N. Cimpoeșu, C. Bejinariu, 2023, “*Structural and mechanical characterization of as-cast CuAlBe alloy*”, Materials Today: Proceedings, ISSN 2214-7853, vol. 72, nr. 2, pp.594-599.
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24. D.P. Burduhos-Nergis, A.V. Sandu, D.D. Burduhos-Nergis, N. Cimpoesu, **M. Benchea**, M. Popa, C. Bejinariu, 2023, “*Tribological Characterization of Phosphate Coatings Deposited on Ti6Al4V*”, Selected Papers from ICIR EUROINVENT - 2023, Springer Proceedings in Materials, Springer, Cham., vol.38, pp.9-21, doi: 10.1007/978-3-031-45964-1_2.
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J. Invenții

K. Contracte de cercetare

K.1 GRANT UEFISCDI PN-IV-P8-8.3-ROMD-2023-0108 tema 13ROMD/2024. <i>Cercetări asupra îmbunătățirii grapelor cu discuri prin acoperiri termice în jet de plasmă</i> Beneficiar: UEFISCDI Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași Valoare proiect: 477500 RON (încasat prin Polytech 61504 RON în 2024) Perioada: 2024-2026 Marcelin BENCHEA: membru în echipa de cercetare (9 membri)
K.2 Contract nr. 4637/2023. <i>Analiza și determinarea atenuării de zgomot a unui perete multistrat</i> Beneficiar: S.C. EXTENSIVE NETWORK SRL Iași Director proiect: conf.univ.dr.ing. Marcelin BENCHEA, U.T. Iași Valoare proiect: 12605 RON Perioada: 2023
K.3 GRANT UEFISCDI PN-III-P1-1.1-TE-2021-0702 tema 27TE/2021. <i>Materiale metalice biodegradabile inovative din sistemul Mg-Ca-Zn utilizate în aplicații ortopedice</i> Beneficiar: UEFISCDI Director proiect: conf.univ.dr.ing. Bogdan Istrate, U.T. Iași Valoare proiect: 450000 RON Perioada: 2022-2024 Marcelin BENCHEA: membru în echipa de cercetare (7 membri)
K.4 Contract nr. 25212/2020. <i>Program in Materials, Additive and Manufacturing, and Multiscale materials Engineering. 3ME</i> Beneficiar: US Army Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași Valoare proiect: 100000 USD Perioada: 2020-2022 Marcelin BENCHEA: membru în echipa de cercetare (7 membri)
K.5 GRANT UEFISCDI PN-III-P1-1.2-PCCDI-2017-0239 tema 60PCCDI/2018. <i>Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale. Proiect component 1 ORTOMAG</i> Beneficiar: UEFISCDI Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași

Valoare proiect: 445000 RON Perioada: 2018-2021 Marcelin BENCHEA: membru în echipa de cercetare (14 membri)
K.6 GRANT UEFISCDI PN-III-P1-1.2-PCCDI-2017-0239 tema 60PCCDI/2018. <i>Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale. Proiect component 3 BIODENTRUT</i> Beneficiar: <i>UEFISCDI</i> Director/Responsabil proiect: conf.univ.dr.ing. Bogdan Istrate, U.T. Iași Valoare proiect: 212000 RON Perioada: 2018-2021 Marcelin BENCHEA: membru în echipa de cercetare (6 membri)
K.7 Contract nr. 488/2018. <i>Testarea pe tribometre a lubrifianților auto de tip Metalubs</i> Beneficiar: <i>S.C. Metalubs S.R.L. Brașov</i> Director proiect: conf.univ.dr.ing. Viorel Paleu, U.T. Iași Valoare proiect: 17226 RON Perioada: 2018 Marcelin BENCHEA: membru în echipa de cercetare (5 membri)
K.8 Contract nr. 21896/2018. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300 Built-in, fabricată de S.C.Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: prof.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON Perioada: 2018 Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.9 Contract nr. 16663/2017. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-700BV/BH, fabricată de S.C. Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: prof.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON Perioada: 2017 Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.10 Contract nr. 1615P/2016. <i>Analiza caracteristicii de zgomot și a atenuării pentru 9 variante constructive de atenuatoare căptușite cu materiale diferite</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 15000 RON Perioada: 2016 Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.11 Contract nr. 605P/2016. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-400BV/BH, fabricată de S.C. Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON Perioada: 2016 Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.12 Contract nr. 2001P/2015. <i>Analiza caracteristicii de zgomot pentru patru variante constructive de atenuatoare de zgomot (125/125 la 90° și 180°; 160/160 la 90° și 180°) produse de S.C. Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON Perioada: 2015 Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.13 Contract nr. 1980P/2015. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-350BV, fabricată de S.C. Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași

Valoare proiect: 10000 RON Perioada: 2015 Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.14 Contract nr. 1324P/2015. <i>Analiza caracteristicii de zgomot pentru patru variante constructive de atenuatoare de zgomot (125/125; 160/160; 200/200; 250/250) produse de S.C. Ensyro SRL</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 15000 RON Perioada: 2015 Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.15 Contract nr. 1101P/7.07.2015. <i>Analiza coeficientului de absorbție acustică pentru materiale fonoabsorbante</i> Beneficiar: UNIVERSITATEA „VASILE ALECSANDRI” din BACĂU Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 5000 RON Perioada: 2015 Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.16 Contract nr. 60P/20.01.2015. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300BV/BH, fabricată de S.C. Ensyro SRL</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON Perioada: 2015 Marcelin BENCHEA: membru în echipa de cercetare (3 membri)
K.17 Contract nr. 1489P/21.10.2014. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300H, fabricată de S.C. Ensyro SRL</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON Perioada: 2014 Marcelin BENCHEA: membru în echipa de cercetare (3 membri)
K.18 Contract nr. 1010P/14.07.2014. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-400HV, fabricată de S.C. Ensyro SRL</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 8065 RON Perioada: 2014 Marcelin BENCHEA: membru în echipa de cercetare (3 membri)
K.19 GRANT CNCSIS TD-190 contract nr.338/1.10.2007 tema <i>Cercetări privind influența zonelor plastice interioare asupra stării de tensiuni și deformații la solicitarea de contact</i> Beneficiar: CNCSIS Director proiect: Marcelin BENCHEA, U.T. Iași Valoare proiect: 40497 RON Perioada: 2007-2009
K.20 GRANT CNCSIS Tip A 63GR/2006 tema 9/28, 80GR/2007 tema 17, 77GR/2008 tema 9 <i>Cercetări teoretice și experimentale privind relația dintre microtopografie, rodaj și fiabilitatea contactelor cu rostogolire cu aplicație pe rulmenți de turație înaltă și angrenaje cilindrice</i> Beneficiar: CNCSIS Director proiect: prof.univ.dr.ing. Spiridon Crețu, U.T. Iași Valoare proiect: 159500 RON Perioada: 2006-2008 Marcelin BENCHEA: membru în echipa de cercetare (10 membri)

L. Premii, distincții

M. Alte realizări semnificative

Data,

prof.univ.ab.dr.ing. Marcelin BENCHEA
Semnătura

Lista de lucrări în domeniul de studii universitare de licență ”Inginerie electrică”

Brînzilă V. Marius Ciprian - **doctor inginer** din 2006, conferentiar din 2018

A. Teza de doctorat.

Sisteme de monitorizare și control pentru parametrii de calitate ai mediului, Universitatea Tehnică "Gh.Asachi" din Iași, 2006, 183 pg.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Marius Branzila, Instrumentation and Virtual Library for Air Pollution Monitoring, capitol in cartea Air Pollution pp.241-264, Ed. Sciyo, Septembrie 2010, ISBN: 978-953-307-143-5
2. M. Branzila and C. Donciu, Distributed System Architecture Using a Prototype Web E-Nose pp. 1-16, capitol in cartea Advances in Biomedical Sensing, Measurements, Instrumentation and Systems din seria Lecture Notes in Electrical Engineering, vol.55, Ed. Springer, 2010, ISBN 978-3-642-05166-1
3. Marius Branzila, Eduard Lunca, capitolul Remote Test-bench Experiments for Teaching Laboratories Based on LabVIEW, Python and Java, în volumul Online Laboratories in Engineering and Technology Education (editori: Dominik May, Michael E. Auer, Alexander Kist), Editura Springer Cham, 2024, 20 pag., ISBN 978-3-031-70770-4

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

1. Marius Branzila, Sisteme senzoriale pentru monitorizarea parametrilor de mediu, Ed. PIM, Iași, 210 pagini, ISBN 978-606-13-4154-2
2. Marius Branzila, Constantin Sarvasanu, Sisteme senzoriale. Aplicații, 2017, Sisteme senzoriale. Aplicații, Ed. PIM, Iași, 162 pagini, ISBN 978-606-13-4155-9
3. Valentin Stefanescu, Alexandru Miron, Marian Siminica, Marius Branzila, Lucian Nica, Aurel Nedelea, Mihai Ionita, Sandu Suru, Cristi Paraschiv, 2024, Instalatii electrice si sisteme electroenergetice, Ed.AGIR, 317 pag, ISBN 978-973-720-757-2
4. Valentin Stefanescu, Daniela Irimia, Marian Siminica, Alexandru Miron, Lucian Nica, Marius Branzila, Cristi Paraschiv, 2024, Probleme de electrotehnica, Ed.AGIR, 110 pag, ISBN 978-973-720-925-2

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Mihai Crețu, Constantin Sarvasanu, Marius Branzila, 2017, Senzori si traductoare, Politehniun, Iași, 369 pagini, ISBN 978-973-621-472-1

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Senzori inteligenti. Indrumar laborator, <https://edu.tuiasi.ro/mod/resource/view.php?id=41678>
2. Senzori si sisteme senzoriale. Support curs, <https://edu.tuiasi.ro/mod/folder/view.php?id=14459>
3. Senzori si sisteme senzoriale. Aplicatii, <https://edu.tuiasi.ro/course/view.php?id=1972#section-2>

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. M. Branzila, D. Codreanu, "IoT System For Environmental Monitoring And Improving Thermal Comfort And Air Quality," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 37-40, doi: 10.1109/EPEi63510.2024.10758184. (IEEE Xplore)
2. M. Branzila, S. Cislariu, "Design of a Laboratory Stand for the Study of Sensors and Sensory Systems," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 53-56, doi: 10.1109/EPEi63510.2024.10758072., (IEEE Xplore)
3. Branzila, S. A. Cîșlariu, S. Vornicu and C. Brinzila, "Sensory System Based on Intelligent Sensors for Implementation of a Modern Weather Station," 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Romania, 2023, pp. 1-4, doi: 10.1109/SIELMEN59038.2023.10290770 (IEEE Xplore)

4. M. Branzila, C. Sarvasanu and I. A. Ursăchianu, "Python Technology Used For A Human-Machine Interface In Sensors And Transducers Laboratory", 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2022, pp. 422-425, doi: 10.1109/EPE56121.2022.9959821. (IEEE Xplore)
5. I. Pavel, M. Branzila, C. Sărmășanu and C. Donose, "LabVIEW Based Control and Monitoring of a Remote Test-Bench Experiment for Teaching Laboratories," 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 398-402, doi: 10.1109/SIELMEN53755.2021.9600348. (IEEE Xplore)
6. Zet C., Branzila M, Fosala C, Sensor Network for Indoor Home Plants, 2019 International Conference on Sensing and Instrumentation in IoT Era (ISSI), 29-30 Aug. 2019 Lisbon, Portugal, 2019 (IEEE Xplore)
7. Brinzila M., Sarvasanu C., Ciudin D., Lacatusu D., Sensors and Transducers Laboratory Kiosk, 2018 International Conference on Electrical and Power Engineering EPE 2018, Iași, October 18-19, 2018 (IEEE Xplore)
8. Brinzila M., Sarvasanu C., Gonçalves J. M., Lacatusu D., Smart Sensors For An Alarm System Using ARM Microcontroller, 2018 International Conference on Electrical and Power Engineering EPE 2018, Iași, October 18-19, 2018 (IEEE Xplore)
9. Marius Branzila, Constantin Sarvasanu, Mihai, Alexandru, Java Technology Used To Facilitate Measuring Activity Performed By Students In Laboratory, International Conference and Exposition on Electrical and Power Engineering, 541-544, 2016 (IEEE Xplore)
10. M. Branzila, C. Sarvasanu, L. Spataru, RASPIMON - Smart Sensory System For Environmental Monitoring, International Conference and Exposition on Electrical and Power Engineering, 752-755, 2014 (IEEE Xplore)
11. M. Branzila, C. Sarvasanu, G. Fanaru, ROBOTVOICE - Voice Command Of A Robot, International Conference and Exposition on Electrical and Power Engineering, 760 – 763, 2014 (IEEE Xplore)
12. Marius Branzila, Valeriu David, Wireless Intelligent Systems for Biosignals Monitoring Using Low Cost Devices, IMEKO, Barcelona, Spain, pp 319, 2013 (SCOPUS)
13. Marius Branzila, Constantin Sarvasanu, Low Cost Smart Sensors for an Intelligent Home, IMEKO, Barcelona, Spain, pp 323, 2013 (SCOPUS)
14. Marius Branzila, Valeriu David, Real time ECG signal processing for R peak detection using Wigner and wavelet functions, Environmental Engineering and Management Journal, June 2013, Vol.12, No. 6, 1207-1214, FI - 1,096
15. Doru Andritoi, Valeriu David, Radu Ciorap, Marius Branzila, Recording and processing ECG signal during magnetotherapy procedures, Environmental Engineering and Management Journal, June 2013, Vol.12, No. 6, 1231-1238 FI - 1,096
16. Marius Branzila, Valeriu David, Chandrashekhar Padole, ECG signal processing using Wigner function, International Conference and Exposition on Electrical and Power Engineering, 601 – 604, 2012 (IEEE Xplore)
17. Marius Branzila; Felix Mariut; Daniel Petrisor, Virtual instrument developed for ADCON weather station, International Conference and Exposition on Electrical and Power Engineering, 853 – 856, 2012 (IEEE Xplore)
18. Al. Trandabat, M. Pislariu, M. Branzila, SiadEnv-Environmental friendly E-building energy management system, Environmental Engineering and Management Journal March 2012, Vol.11, No. 3, 687-694, 1582-9596

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26. Brinzila Carmen, Brinzila Marius, A system to measure the current efficiency and energy specific consumption for BDD electrode, Buletin AGIR nr. 3/2012, iunie-august, ISSN-L 1224-7928, pp.151-154
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32. G. Lacatusu, M. Branzila, M. Cretu, D.Lacatusu, Improvment of ECG signal monitoring system using PDA phone and virtual instrumentation, MTC 2011, Vol.I, pp. 541-544

33. Perju, C; Branzila, MC; Cretu, M, Wireless monitoring system for risk management in assurance of drinking water quality, MTC 2009, VOL 1 Pages: 683-686 Published: 2009
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35. Sarvasanu, C; Branzila, M; Breniuc, L, et al, On ways of monitoring the clinical laboratory using computer, MANAGEMENT OF TECHNOLOGICAL CHANGES, VOL 1 Pages: 717-720 Published: 2009
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37. Alexandru, CI; Siminiceanu, I; Branzila, MC, et al., Development and environmental applications of new electrochemical advanced oxidation processes (EAOPS) for wastewater treatment, MANAGEMENT OF TECHNOLOGICAL CHANGES, VOL 1 Pages: 569-572 Published: 2009
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39. Branzila, Marius, Schreiner Cristina, Trandabat Alexandru, Pislariu Marius, Intelligent system for monitoring of exhaust gas from hybrid vehicle, Intelligent Systems, 2008. IS '08, 4th International IEEE Conference, Volume 1, Issue , 6-8 Sept. 2008, Varna, Bulgaria, Page(s):5-2 - 5-5, ISBN: 978-1-4244-1739-1
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G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

1. Lacatusu D, Miron S.D, Branzila M, Crivoi F., Baican M., The Alternative Method For Detecting Dental Caries Using An Open Source System Arduino, The Medical-Surgical Journal, Vol 123 No 2 (2019)
2. M. Pislariu, A. Trandabat, R. Burlacu, C. Bratescu, S. Aradoaie, M. Branzila, Internet based distributed method in support of remote and collaborative design, Buletinul Institutului Politehnic din Iasi, Tomul LIV (LVIII) Fasc.4, 2008, ISSN 1223-8139
3. Schreiner C., Ciobanu R., Brînzilă M., Laboratorul virtual utilizabil în domeniul psihologiei, Anuarul Universității "Petre Andrei" din Iasi, Serie nouă Tomul II, 2007, ISSN 1454-4814, Ed. Institutul European, pp. 218-228
4. Brînzilă M.C, Pereira M.D., Donciu C., Cretu M., Internet Based Meteorological Center, IAȘI – ROMÂNIA Buletinul Institutului Politehnic din Iasi, Tomul LII(LIV), Fasc. 5., 2006, ISSN 1223-8139 pp.965-970

5 Brînzilă M.C., Alexandru C.I., Donciu C., Cretu M., Design and Analysis of a proposed Web Electronic Nose (WebE -Nose), IAȘI – ROMÂNIA Buletinul Institutului Politehnic din Iasi, Tomul LII(LIV), Fasc. 5, 2006, ISSN 1223-8139, pp.971-976

I. Lucrări științifice publicate în volumele conferințelor.

- 1 M.Branzila, M.Cretu, C.I. Alexandru, C. Schreiner, Intelligent System for Monitoring the Environmental Parameters, IMEKO 2008 - 16th International Symposium on Exploring new frontiers and methods for electrical and electronic measurements, 22-24 September 2008 Florence - Italy, ISBN 978-88-903149-3-3, pp. 629-634
- 2 M.Branzila, C.Donciu, C.I. Alexandru, C. Schreiner, From Real World Experiment to Virtual Laboratory and Next Generation Grid, IMEKO 2008 - 16th International Symposium on Exploring new frontiers and methods for electrical and electronic measurements, 22-24 September 2008 Florence - Italy, ISBN 978-88-903149-3-3, pp.717-722
- 3 S.Ursache, M. Branzila, C. Bratescu, R. Burlacu, FDTD implementations for electromagnetic shields, IMEKO 2008 - 16th International Symposium on Exploring new frontiers and methods for electrical and electronic measurements, 22-24 September 2008 Florence - Italy, ISBN 978-88-903149-3-3, pp. 605-609
- 4 Marius Branzila, Cristina Schreiner, Cristian Ravariu, A prototype of web-e-nose device used in medicine fields, International conference Remote Engineering and Virtual Instrumentation REV 2008, June 23-25 2008, University of Applied Sciences Duesseldorf, Germany, ISBN 978-3-89958-353-6 Kassel University Press
- 5 Carmen Alexandru, Marius Branzila, Ilie Siminiceanu and Cristina Schreiner, Virtual instrumentation for study of the Crystal Violet Mineralization in Water by the Electro-Fenton Method using an automated system, International conference Remote Engineering and Virtual Instrumentation REV 2008, June 23-25 2008, University of Applied Sciences Duesseldorf, Germany, ISBN 978-3-89958-353-6 Kassel University Press
- 6 C. Ravariu, P. Tuhari, M. C. Branzila, F. Ravariu and R. Botan, Virtual Diagnosis in Medicine using e-Healthcare, International conference Remote Engineering and Virtual Instrumentation REV 2008, June 23-25 2008, University of Applied Sciences Duesseldorf, Germany, ISBN 978-3-89958-353-6 Kassel University Press
- 7 C. Schreiner, Al. Trandabat, M. Branzila, R. Ciobanu, Environmental measurement center based on remote instrumentation, CEST-2007, september 5th - 7th, 2007, Kos island, Greece, pp. B-763-770, ISBN 978-960-7475-40-4
- 8 C. Schreiner, Al. Trandabat, M. Branzila and R. Ciobanu, Environmental measurement center based on remote instrumentation, Proceedings of the 10th International Conference on Environmental Science and Technology, Kos Island, Greece, ISBN 978-960-7475-40-4, ISSN 1106-5516, 5-7 September 2007, pp.763-770
- 9 M. Branzila, C.Alexandru, Al.Trandabat, M.Cretu, A prototype of Web-E-Nose device to be used in medicine fields, IMEKO 2007 - 15th International Symposium on Novelty in Electrical Measurements and Instrumentation, 18-22 September 2007 Iasi - Romania, ISBN 978-973-667-260-6, ISBN 978-973-667-261-3, Vol.1, pp. 336-338

- 10 C.I.Alexandru, M.C.Branzila, I.Siminiceanu, Automated system for study of the Crystal Violet Mineralization in Water by the Electro-Fenton Method, IMEKO 2007 - 15th International Symposium on Novelty in Electrical Measurements and Instrumentation and 1st IMEKO TC19 International Symposium on Measurement and Instrumentation for Environmental Monitoring, 18-22 September 2007, Iasi-Romania, ISBN 978-973-667-263-7, pp. 29-31
- 11 Radu Damian, Romeo Ciobanu, Marius Brînzilă, Marius Olariu, Stability Considerations and Efficient Computing in Chiral Materials Electromagnetic Simulations, IMEKO 2007 - 15th International Symposium on Novelty in Electrical Measurements and Instrumentation and 1st IMEKO TC19 International Symposium on Measurement and Instrumentation for Environmental Monitoring, 18-22 September 2007, Iasi – Romania
- 12 Marius Brinzila, M.D.Pereira, Al. Trandabat, C. Schreiner, Virtual meteorological center, International Conference Remote Engineering and Virtual Instrumentation REV2007, Porto-Portugalia, 25-27 June 2007, ISBN 978-3-89958-278-9
- 13 R. Ciobanu, M. Branzila, C. Schreiner, A prototype of web-e-nose device to be used in medicine fields, Proceedings of First International Conference on E-Medicine EICEM 1, Cairo – Egipt, 27-30 March 2007, pp.135-140
- 14 C. Schreiner, M. Branzila, R. Ciobanu, Prototype architecture for a remote and distributed laboratory, for higher education purpose in medicine fields, Proceedings of First International Conference on E-Medicine EICEM 1, Cairo – Egipt, 27-30 March 2007, pp.225-228
- 15 Romeo Ciobanu, Cristina Schreiner, Marius Branzila, Alex Trandabat, Virtual laboratory for higher education purposes, based on remote measurements in the field of environment safety, Proceedings of International Conference on Distance Education, March 27-29, 2006, Muscat, Sultanate of Oman ICODE 2006, pp.156-167
- 16 Romeo Ciobanu, Christina Schreiner, Codrin Donciu, Marius Branzila, Prototype architecture for a remote and distributed measurements laboratory, for higher education purposes, Proceedings of International Conference on Distance Education, March 27-29, 2006, Muscat, Sultanate of Oman ICODE 2006, pp.173-185

J. Invenții.

1. David Valeriu, Foșălău Cristian-Ioan, Branzila Marius-Ciprian, RO131475(A2)-Method for extracting quasi-periodic signals from noise

K. Contracte de cercetare.

Proiecte de cercetare castigate in calitate de director de proiect (titlu/valoarea in lei sau Eu ro dupa caz)

1. Sistem complex de monitorizare si control a calitatii mediului pentru un laborator virtual al societatii informatinale, Grant tip TD, cod CNCSIS 168, 18000 RON, 2004 – 2006 (33371/2004; 34664/2005; 164/2006)

2. Grant (bursă) de cercetare BD, pentru tineri doctoranzi, cu tema Sisteme de monitorizare si control pentru parametrii de calitate ai mediului, cod CNCSIS 11, 200 RON/luna, 2004 – 2007

Proiecte de cercetare castigate in calitate de membru in echipa de cercetare (titlu/valoare in lei sau Euro dupa caz)

1. Haine ESD realizate din fibre cu miez conductor tricotate bistrat (GarmESD), PN Parteneriate, contract 179/ 2012
2. Sistem video automatizat cu grad ridicat de interschimbabilitate pentru etalonare metrologică a echipamentelor de măsurare/ valoare UTI: 650000 RON
3. Sistem inteligent de irigare de precizie implementabil pe structuri automate cu deplasare circulara sau liniara/ valoare UTI: 467300 RON
4. Sistem integrat de inspectie video-inteligenta a materialelor textile dezvoltat prin metode virtuale de procesare a imaginii/1040000 RON
5. Sistem informatic de instruire interactiva bazat pe algoritmi multitask de mare viteza dezvoltat pe platforma reconfigurabila online pentru aplicatii de tip laborator virtual/ valoare UTI: 606.164 RON
6. Sisteme virtuale și distribuite de management a calității și mentenanței/520000 RON
7. Dezvoltarea capacității de integrare a romaniei în cadrul programelor, platformelor și rețelelor europene in domeniul sistemelor virtuale si distribuite de design si management al cercetarii 188/2006, CEEX M3, 200000 RON
8. Dezvoltarea parteneriatelor c/d prin includerea excelentei romanesti, în vederea promovării de proiecte comune în domeniul materialelor avansate nanostructurate destinate ecranelor de protectie la radiatii electromagnetice in domeniul GHz, 202/2006, CEEX M3, 200000 RON
9. Dezvoltarea parteneriatelor c/d prin includerea excelentei romanesti, în vederea promovării de proiecte comune în domeniul materialelor avansate nanostructurate destinate ecranelor de protectie la radiatii electromagnetice in domeniul GHz/173/2006,CEEX M3,200000 RON
10. Dezvoltarea capacitatii de integrare a romaniei in cadrul programelor, platformelor si retelelor europene in domeniul metodelor comparative neinvazive si nedistructive de analiza a calitatii si securitatii alimentelor, 179/2006, 200000 RON
11. Biocompozite obtinute prin reciclarea deseurilor de pet si utilizarea de derivați ligno-celulozici, 79/2006, Asistent Cercetare (Nov.2006-Aprilie 2007), 1250000 RON
12. Ecrane pentru constructii speciale bazate pe structuri chiral-fagure, 46/2006,1200000 RON
13. Materiale inteligente tip chiral-fagure pentru aplicatii multisectoriale (si extinderea aplicatiilor propuse initial pentru domeniul protectiei la radiatii electromagnetice - prin materiale si tehnologii avansate pentru constructii speciale), 115/2006,659383 RON
14. Materiale inteligente tip chiral-fagure pentru aplicatii multisectoriale (si extinderea aplicatiilor propuse initial pentru domeniul protectiei la radiatii electromagnetice - prin materiale si tehnologii avansate pentru constructii speciale), 115/2006, 659383 RON

15. Remote instrumentation in next-generation grids, CORINT 132/2007, 90160 RON
16. Metodologie dielectrica nedistructiva, neinvaziva, comparativa de detectare rapida a ingredientilor cu potential factor de risc pentru sanatate din produsele alimentare, PN2 Parteneriate 51-015/14.09.2007, 2000000 RON
17. Metode avansate de proiectare si testare a sistemelor de izolare destinate functionarii in conditii extreme si tolerante la defectare, CNCSIS A 489/2004, 150000 RON
18. Sistem de masurare distribuita dezvoltat prin metode de instrumentatie virtuala, CNCSIS AT 330/2003, contract nr. 33557/2003, 12000 RON
19. CNFIS-FDI-2024-F-0016, Rethinking Skills for Internationalisation - iSKILLS
20. ROSE, AG. nr.120/SGU-PV/C/II
21. ROSE, nr.185/SGU/NC/II / 11 septembrie 2019
22. Proiect POCU/379/6/21/123975 Dezvoltarea culturii antreprenoriale a studenților de la inginerie și arhitectură prin crearea unei rețele de centre de pregătire în antreprenoriat – AntreprenorIng
23. "Joint Operational Programme Romania -Republic of Moldova 2014-2020, finanțat prin ENI CBC, cu titlul "Direct Access to Students", acronim DAS.

L. Premii, distincții.

1. Medalie de aur, la salonul de inventii EURO POLITEHNICUS 2024
2. Premiu special pentru creativitate stiintifica si originalitate acordat de universitatea „Lucian Blaga” din Sibiu
3. Medalie de aur, la Targ de inventii INTARG® – 18th Invention Expo: Katowice, Polonia 3 -5 Iunie 2025
4. Medalie de aur, la Targ de inventii CSITF - 8th Invention Expo, SHANGHAI, China 13 Iunie 2025

M. Alte realizări semnificative.

Data,

Lista de lucrări în domeniul de studii universitare de licență Inginerie Electrică

Numele și prenumele: **BURLICĂ M. MONICA-DANA**

A. Teza de doctorat.

Titlul tezei de doctorat: “METODE SEMIGRUPALE PENTRU SISTEME DE REACTIE-DIFUZIE”. Data susținerii- 18.12.2009, Universitatea “Alexandru Ioan-Cuza” din Iasi, Facultatea de Matematica, in domeniul Matematica, conducator stiintific- Prof. univ. dr. Ioan I. Vrabie.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

M.D. Burlică, M. Necula, D. Roșu, I.I. Vrabie, *Delay Differential Evolutions Subjected to Nonlocal Initial Conditions*, CRC Press, Taylor & Francis Group, A Chapman & Hall Book, Boca Raton London-New York, 361pg., 2016.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCIS.

M. Burlică, *Capitole de Analiză Matematică*, Editura Performantica, Iași, 2022.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. R. Gologan, V. Iftode, G. Păltineanu, M. Olteanu, A. Toma, T-L . Costache, J. Cringanu, M. Roman, **M. Burlică**, V. Kecs, *Calcul diferențial si integral*, Editura Studis, Iași, 194 pg. ,2013. ISBN: 978-606-624-316-2

2. V. Pop, L. Popa, D. Popa, M. Olteanu, G. Mincu, **M. Burlică**, R. Strugariu, M. Ispas, *Teme și probleme pentru concursurile studențești de matematică*, vol. 2, Concursuri internaționale, Editura Studis, Iași, 2013, 251pg. ISBN vol.2: 978-606-624-300-1

3. O. N. Stănășilă, M. Pîrvan, M. Olteanu, C. Costinescu, M. Gavril, D. Popa, V. Pop, L. Popa, **M. Burlică**, M. Ispas, A. Gica, C. Gheorghe, V. Vuletescu, . *Teme și probleme pentru concursurile studențești de matematică*, vol. 3, Concursuri naționale, Editura Studis, Iași, 2013, 385 pg. ISBN vol.3: 978-606-624-301-8

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. **M. D. Burlică**, *Analiza matematica. Culegere de probleme*, 2022, 119 pg.

2. **M. D. Burlică**, *Matematici Speciale I- Indrumar pentru seminar*, 53 pg.

3. **M. D. Burlică**, *Analiza matematica, Curs în format ppt* (305 slides).

4. **M. D. Burlică**, *Matematici Speciale I, Curs în format pdf*, 74 pg.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

F1. **M. Burlică**, M. Durea, R. Strugariu, [On directional subregularity of mappings](#), Optimization, pp.1-25, 2022.

F2. **M. Burlică**, M. Durea, R. Strugariu, [New concepts of directional derivatives for set-valued maps and applications to set optimization](#), Optimization, pp.1-23, 2023.

F3. **M. D. Burlică**, D. Roșu, [An existence result for a class of delay inclusions involving measures, subjected to nonlocal initial data](#), Mediterranean Journal of Mathematics, 14:104, 2017.

F4. **M. D. Burlică**, D. Roșu, [Nonlinear delay reaction-diffusion systems with nonlocal initial conditions having affine growth](#), Topological Methods in Nonlinear Analysis, 48 (2), pp. 1-22, 2016.

- F5. **M. D. Burlică**, D. Roșu, I.I. Vrabie, [*Abstract reaction–diffusion systems with nonlocal initial conditions*](#), Nonlinear Analysis: Theory, Methods & Applications, 94, pp. 107–119, 2014.
- F6. **M. Burlică**, D. Roșu, [*A class of nonlinear delay evolution equations with nonlocal initial conditions*](#), Proceedings of the American Mathematical Society, 142, pp. 2445-2458, 2014.
- F7. **M. Burlică**, D. Roșu, [*A class of reaction-diffusion systems with nonlocal initial conditions*](#), An. Științ. Univ. Al. I. Cuza Iași, (N.S), 61(1)(2015), 59-78.
- F8. **M. D. Burlică**, D. Roșu, I. I. Vrabie, [*Continuity with respect to the data for a delay evolution equation with nonlocal initial conditions*](#), Libertas Mathematica,(new series), 32 (2012), No. 1, 39-50.
- F9. **M. D. Burlică**, *Viability for multi-valued semilinear reaction-diffusion systems*, Ann. Acad. Rom. Sci.. Ser. Math.,2 (2010), 3-24.
- F10. **M. Burlică**, D. Roșu, [*A viability result for semilinear reaction-diffusion systems*](#),An. Științ. Univ. Al. I. Cuza Iași, (N.S), 54(2) (2008), 361-382.
- F11. **M. Burlică**, D. Roșu, [*The initial value and the periodic problems for a class of reaction-diffusion systems*](#), Dynamics of Continuous, Discrete and Impulsive Systems, DCDIS, series A: Mathematical Analysis, 15 (2008), 427-444

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

- H1. **M. Burlică**, D. Roșu, *Semilinear reaction-diffusion systems*, Buletinul Institutului Politehnic, Iași, tom LIII (LVII), Secția Matematică, Mecanică Teoretică, Fizică, 5, pp.51-58, 2007.
ISSN: 1224-7863

I. Lucrări științifice publicate în volumele conferințelor.

- I1. **M. Burlică**, *Viability for Semi-Multi-Valued Reaction-Diffusion Systems*, International Conference on Numerical Analysis and Applied Mathematics, 16-20 September, 2008, Kos, Greece, Vol. 1048, pp. 126-129, 2008.
ISBN: 978-0-7354-0576-9.
- I2. **M. Burlică**, D. Roșu, *A viability result for semilinear reaction-diffusion systems*, Proceedings of the International Conference of Applied Analysis and Differential Equations, 4–9 September 2006, Iași, Romania, World Scientific, 2007, 31–44.

J. Invenții.

K. Contracte de cercetare.

- K1. Membru Grant ERASMUS KA2+ MathE-Improve Math Skills in Higher Education, nr. 2018-1-PTK01-KA203-047361, perioada 01.09.2018 – 31.08.2021.
- K2. 2019-2022 Expert Educație Matematică proiect ROSE 185/SGU/NC/II „Cresterea gradului de retentie in primul an de studii universitare in inginerie electrica si energetica prin reducerea abandonului si cresterea promovabilitatii”, grant prof. univ. dr. ing. Marinela Temneanu, 13 membri
- K3. Expert Educație Matematică proiect ROSE 288/SGU/CI/III „Rețea de laboratoare didactice pentru discipline generale specifice studiilor de inginerie -NETLAB”, director grant prof. univ. dr. ing. Neculai Eugen Seghediu, 36 membri
- K4. 2020-2022 Consilier mentor proiect ROSE 367/SGU/SS/III „Viitorul este electric!”, director grant sef lucrari dr.ing. Cristina Vataavu, 23 membri

K5. 2017-2020 Expert Educație Matematică proiect ROSE 83/SGU/CI/I „Reducerea abandonului școlar al studenților din anul întâi prin activități remediale și de consiliere în Centrul de Învățare din cadrul TUIASI (REMEDIUM)”, director grant prof. univ. dr. ing. Neculai Eugen Seghedin, 36 membri

K6. 2011-2016 Proiect PN-II-ID-PCE-2011-3-0052, CNCSIS-UEFISCDI, coordonator contract prof. univ. dr. I. I. Vrabie, tema, „Incluziuni funcțional-diferențiale cu întârziere în spații Banach”(5 membri), membru în echipă.

K7. 2011-2013 Proiect POSDRU/56/1.2/S/32768, „Formarea cadrelor didactice universitare și a studenților în domeniul utilizării unor instrumente moderne de predare-învățare-evaluare pentru discipline matematice, în vederea creării de competențe performante și practice pentru piața muncii”, coordonator proiect conf dr. A. L. Pletea, expert pe termen scurt

K8. 2007-2010 Grant PN-II-ID-IDEI, cod CNCSIS ID 397, cu tema, „Incluziuni diferențiale pe mulțimi închise, mulțimi tangente și aplicații”, încheiat de Universitatea „Alexandru Ioan Cuza” din Iași, director de contract prof. univ. dr. I. I. Vrabie (5 membri)- membru în echipă.

K9. 2006-2008 Grant CNCSIS A , cod 1159 cu tema, „Probleme de viabilitate și invarianță pentru ecuații diferențiale și ecuații funcționale, sisteme de reacție-difuzie și ecuații cu date măsurii” încheiat de Universitatea „Alexandru Ioan Cuza” din Iași, director de contract prof. univ. dr. I. I. Vrabie (5 membri)- membru în echipă

K10. **Grant CNCSIS tip A, cod 818**, cu titlul: „*Studiul existenței, unicității, stabilității și aproximării soluțiilor unor clase de ecuații funcționale*”, încheiat de Universitatea Tehnică “Gheorghe Asachi”, Iași, director proiect prof. dr. Adrian Corduneanu, **membru în echipă** Nr. 33371/2004, tema 50; nr. 34664/2005, tema 21.

L. Premii, distincții.

L1. Articolul **R3** este premiat în zona galbenă PN-III-P1-1.1-PRECISI-2017-14311

L2. Articolul **R5** este premiat în zona galbenă PN-II-RU-PRECISI-2014-8-6134

L3. Articolul **R6** este premiat în zona galbenă PN-II-RU-PRECISI-2014-5834

L4. Articolul **R9** a obținut Special Award oferit de The Section of Mathematics of the Academy of Romanian Scientists

M. Alte realizări semnificative.

Data,
24.10.2025

Nume, semnătura

Lista de lucrări în domeniul de studii universitare de licență INGINERIE ELECTRICĂ

Numele și prenumele: Burlică Radu

A. Teza de doctorat.

Teză de doctorat: Acționarea cu electromagneți a aparatelor electrice

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. R. Burlică, "Prospective de l'incineration des dechets urbains et industriels specieux de la ville de Iasi ", Ecole des Mines d'Ales (in french), Ales, 2001, Editura Universității Ecole des Mines d'Ales, Franța. 97p

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

1. R. Burlică, "Tehnici de comutație", Curs, Editura PIM, 2014, ISBN: 978-606-13-2019-6, 216p
2. R. Burlica, Tehnici de comutatie, Indrumar de laborator, 127p, Ed. PIM 2014
3. R. Burlica, Electroecologie, Indrumar de laborator, 95p, PIM, 2014
4. R. Burlica, "Descarcari electrice de tip plasma rece. Aplicatii pentru mediu", Ed. PIM , 2015, , ISBN: 978-606-13-2409-5
5. E. Hnatiuc, R. Burlică, B. Hnatiuc, Bazele Teoretice ale Funcționării Aparatelor Electrice, Editura Venus, Iași, 2004, ISBN: 973-7960-52-1 E. Hnatiuc 120p, R. Burlică 100p B. Hnatiuc 45p
6. R. Burlică, Regimurile Tranzitorii ale Aparatelor Electrice, Indrumar de laborator. 130p
7. R. Burlică, E. Hnatiuc, B. Hnatiuc, Aparate Electrice de Comutație Acționate cu Electromagneți, Editura Venus, Iași, 2004, ISBN: 973-7960-30-0, R. Burlică 100p, E. Hnatiuc 30p, B. Hnatiuc 25p
8. Radu Burlică, Dragoș Astanei, „Plasma non-termică: Fundamente, Aplicații, Analiză”, Editura PIM, ISBN 978-606-13-5944-8, 323 pag., Iași, 2020.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. R. Burlică, E. Hnatiuc, Proiectarea Aparatelor Electrice, curs, www.ee.tuiasi.ro/~rburlica/public/PCAE 218p, R. Burlica 146p, E. Hnatiuc 72p
2. R. Burlică, Regimurile Tranzitorii ale Aparatelor Electrice, curs, www.ee.tuiasi.ro/~rburlica/public/RTAE, 203p

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. V. Stoleru, R. Burlică, G. Mihalache, D. Dirlau, S. Padurean, G.C. Teliban, D. Astanei, A. Cojocar, O. Beniuga, A. Patras, „Plant growth promotion effect of plasma activated water on Lactuca sativa L. cultivated in two different volumes of

- substrate”, Scientific Reports (Nature), vol. 10, issue 1, Art. number 20920, 2020, factor de impact (2019) 3,998.
2. V. Popescu, D.G. Astanei, R. Burlică, A. Popescu, C. Munteanu, F. Ciolacu, M. Ursache, L. Ciobanu, A. Cocean, “Sustainable and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics”, Journal of Cleaner Production, vol. 232, pp. 451–461, 2019, factor de impact (2019) 7,246.
 3. R. Burlică, I.D. Dirlău, D. Astanei, „NON-THERMAL PLASMA MINI-REACTORS FOR WATER TREATMENT”, Environmental Engineering and Management Journal, vol. 18, issue 8, pp. 1799 – 1807, 2019, factor de impact (2018) 1,186.
 4. A. Doubla , E. B. Tsagou-Sobze, D. Moussa, R. Burlica, E. Hnatiuc, J.-L. Brisset, Plasmachemical degradation of urea and thiourea solutes exposed to an electric discharge at atmospheric pressure”Revue des Sciences d’Eau, no.20-3, pp 265-272, 2007, ISSN 0992-7158
 5. Avaly Doubla, Radu Burlica, Eugen Hnatiuc, David Moussa and Jean-Louis Brisset, “ Destruction of alkaline cyanides by electric discharges” Research Journal of Chemistry and Environment, ”, 11 (1) 92-95. (2007)
 6. Radu Burlica, Michael J. Kirkpatrick, and Bruce R. Locke, Formation of reactive species in gliding arc discharges with liquid water, Journal of Electrostatics 64, 35-43, 2006.
 7. Doubla A., Burlica.R, Hnatiuc E., Brisset J.L., Elements d’un bilan energetique du fonctionnement du plasma d’arc rampant d’air humide, Physical Chemistry News, 26, 2005, ref. 0161004/05
 8. Radu Burlica, Michael J. Kirkpatrick, Wright C. Finney, Ronald J. Clark, and Bruce R. Locke, Organic Dye Removal From Aqueous Solution by Glidarc Discharges, Journal of Electrostatics,62, 4, 309-321, 2004.
 9. Burlica, R., Shih, K.-Y., Hnatiuc, B., Locke, B.R. , Hydrogen generation by pulsed gliding arc discharge plasma with sprays of alcohol solutions Industrial and Engineering Chemistry Research 50 (15) , pp. 9466-9470, 2011.
 10. Burlica, R., Grim, R.G., Shih, K.-Y., Balkwill, D., Locke, B.R., Bacteria inactivation using low power pulsed gliding arc discharges with water spray Plasma Processes and Polymers, 7 (8) , pp. 640-649, 2010.
 11. Burlica, R., Locke, B.R. Pulsed plasma gliding-arc discharges with water spray IEEE Transactions on Industry Applications 44 (2) , pp. 482-489 20, 2008
 12. Direct and Delayed Degradation of Azorubin (E122) by Gliding Arc Discharges Marius Ursache, Bogdan Hnatiuc, Eugen Hnatiuc, Dragos Astanei, Jean-Louis Brisset, Radu Burlica ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, Issue 11 Volume 14, 2015
 13. EFFECT OF ELECTRICAL CURRENT ON H-2/H2O2 GENERATION IN NONTHERMAL PLASMA GLIDING ARC REACTORS By: Burlica, Radu; Hnatiuc, Bogdan Hnatiuc Eugen, M. Ursachi. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 10 Issue: 4 Pages: 579-583 Published: APR 2011
 14. Formation of H-2 and H2O2 in a Water-Spray Gliding Arc Nonthermal Plasma Reactor By: Burlica, R.; Shih, K-Y; Locke, B. R. INDUSTRIAL & ENGINEERING

CHEMISTRY RESEARCH Volume: 49 Issue: 14 Pages: 6342-6349 Published: JUL 21 2010

15. SPECTROSCOPIC DIAGNOSTIC OF TRANSIENT PLASMA PRODUCED BY A SPARK PLUG By: Hnatiuc, B.; Pellerin, S.; Hnatiuc, E.; R. Burlica, ROMANIA JOURNAL OF PHYSICS, Volume: 56 Supplement: S Pages: 109-113 Published: 2011
16. Effects of the Voltage and Current Waveforms and Discharge Power on Hydrogen Peroxide Formation in Water-Spray Gliding Arc Reactors By: Burlica, Radu; Finney, Wright C.; Locke, Bruce R., IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 49 Issue: 3 Pages: 1098 - 1103 Published: MAY-JUN 2013
17. Optical Diagnostics of Electrical Discharge Water-Spray Reactors for Chemical Synthesis By: Hsieh, Kevin; Burlica, Radu; Locke, Bruce R. IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS Volume: 49 Issue: 1 Pages: 305-310 Published: JAN-FEB 2013

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

1. Burlica, and B. Locke. The effect of confined plasma gliding arc discharges on organic compounds removal in aqueous solutions, Buletinul Institutului Politehnic Iasi Tomul LII (LVI), FASC. 5, 2006 ISSN1223-8139
2. R. Burlica and E. Hnatiuc, Gyroscopic stabilization system for small and medium size vessels Buletinul Institutului Politehnic Iasi, Tomul LII (LVI), FASC. 5, 2006 ISSN1223-8139
3. R. Burlica and E. Hnatiuc, Gyroscopic stabilization system for small and medium size vessels Buletinul Institutului Politehnic Iasi, Tomul LII (LVI), FASC. 5, 2006 ISSN1223-8139
4. R. Burlica, M. Kirkpatrick, M. Finney and B. Locke, The Effects of Gas and Solution Flow Rate on Dye Removal in Glidarc Reactors, Buletinul Institutului Politehnic Iasi. Tomul L(LIV), Fasc. 5A, EPE 2004. ISSN1223-8139
5. Hnatiuc B., Pellerin S., Rascanu V., Hnatiuc E., Burlica R. Analysis of the transition of a dielectric barrier discharge to a luminiscent discharge at atmospheric pressure, Buletinul Institutului Politehnic Iasi. Tomul L(LIV), Fasc. 5A, 2004. ISSN1223-8139
6. Hnatiuc E., Brisset J. L., Hnatiuc B., Mousa D., Burlica R., Doubla A., Fanmoe J., Kamgang O., Tsagou E., About the performances of the electrochemical reactors with cold plasma, Buletinul Institutului Politehnic Iasi. Tomul L(LIV), Fasc. 5A, EPE 2004. ISSN1223-8139
7. R. Burlica, E. Hnatiuc and B. Hnatiuc, Possibilities to anticipate the fault current in A.C. power electrical networks.
8. Buletinul Institutului Politehnic Iasi, Tomul XLVIII, Fasc. 5A, 2002 ISSN 0258-9109
9. R. Burlica, E. Hnatiuc and B. Hnatiuc, Possibilities to anticipate the fault current in D.C. power electrical networks.
10. Buletinul Institutului Politehnic Iasi, Tomul XLVIII, Fasc. 5A, 2002, ISSN 0258-9109
11. Burlica R., Hnatiuc E., Hnatiuc B., The analytical evaluation of the disconnecting time for the D.C. electromagnetic commutation apparatuses with contacts, Buletinul

Institutului Politehnic din Iași, Tomul XLVII(LI), Fascicula 1-2, Secția a III-a, 2001, p. 175-180

12. EFFECT OF NON-THERMAL PLASMA ON MOLECULAR SPECIES FORMED IN WATER BASED SOLUTION Authors: Iuliana Delicia Dirlau, Radu Burlica, Dragos Astanei, Oana Beniuga - Bulletin of the Polytechnic Institute of Iasi. Electrical Engineering, Power Engineering, Electronics Published by Technical University "Gheorghe Asachi" of Iași, Vol. 63 (67), No. 1, pp.9-20, 2017

I. Lucrări științifice publicate în volumele conferințelor.

1. Daniel E. Crețu; Dragos Astanei; Radu Burlică; Oana Beniugă; Dorin Teșoi, „The Influence of NTP Reactor Geometry on H₂O₂ Generation in Water”, Proc. of the 2020 International Conference and Exposition on Electrical and Power Engineering, 22-23 oct. 2020, Iasi, Romania.

2. D Teșoi; D-E Crețu; O Beniugă; R Burlică; D Astanei; M Olariu, „DBD Plasma in Air Reactor for Polymeric Surfaces Treatment”, Proc. of the 2020 International Conference and Exposition on Electrical and Power Engineering, 22-23 oct. 2020, Iasi, Romania.

3. Maricel Adam; Mihai Andrusca; Alin Dragomir; Dragos Astanei; Radu Burlica, „DBD Plasma in Air Reactor for Polymeric Surfaces Treatment”, Proc. of the 2020 International Conference and Exposition on Electrical and Power Engineering, 22-23 oct. 2020, Iasi, Romania.

4. D. Astanei, R. Burlică, D. Crețu, I.D. Dirlău, G. Urmă, B. Hnatiuc, “Capacitive Power Supply for Double Spark Plug Ignition System”, Proc. of. 12th International Conference and Exhibition on Electromechanical and Energy Systems SIELMEN 2019, Article ID 264, 10-11 October 2019, Chișinău, Republic of Moldova.

5. D. Astanei, D. Crețu, R. Burlică, I.D. Dirlău, O. Beniugă, S. Pellerin, M. Wartel, “Voltage Polarity Influence on NTP Energy Efficiency of Point-to-Point Reactor”, Proc. of. 12th International Conference and Exhibition on Electromechanical and Energy Systems SIELMEN 2019, Article ID 263, 10-11 October 2019, Chișinău, Republic of Moldova.

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Inventor(s): BURLICA R, LOCKE B
2. Pulsed gliding arc electrical discharge reactors
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Inventor(s): BURLICA R, LOCKE B
3. Cold plasma device with non-symmetrical electrodes meant for the reformation of organic compounds for producing hydrogen
Patent Number(s): RO128078-A2 (Romania)
Inventor(s): BURLICA R, HNATIUC B, HNATIUC E, URSACHE M

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1. Titlul proiectului: “Double-sided biotreatment of polymeric foil for food packaging using coupled DBD-Corona non-thermal plasma (PlasmaPack)”; ERANET-MANUNET-PlasmaPack, contract UEFISCDI nr. 214/2020 – www.plasmapack.ieceia.tuiasi.ro, funcția în cadrul proiectului: membru.

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4. Titlul proiectului: „Evaluation of the activated water produced by different non-thermal plasma reactors (PAW-Ev)”, PN-III-P3-3.1-PM-RO-FR-2019-0213, contract UEFISCDI nr. 19BM/2019. www.paw-ev.tuiasi.ro, funcția în cadrul proiectului: membru.

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6. Titlul proiectului: „STUDIUL PRODUCERII HIDROGENULUI FOLOSIND TEHNOLOGII CU PLASMA RECE”, 2009-2011, funcția în cadrul proiectului: Director.

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9. National Science Foundation, SUA, Reaction Processes in Organic Droplet Spray Plasma Reactors, (P.I. Dr. Bruce R. Locke, co-P.I. Dr. Igor Alabugin, co-P.I. Dr. Farrukh Alvi) (09/01/2012-08/31/2015) CBET 1236225., funcția în cadrul proiectului: Membru

10. National Science Foundation, SUA Water Spray in Atmospheric Pressure Electrical Discharge Plasma (P.I. Dr. Bruce R. Locke, co-P.I. Dr. Farrukh Alvi, co-P.I. Dr. Milen Kostov) (09/01/2009-08/31/2012) CBET 0932481., funcția în cadrul proiectului: Membru

11. Grant de cercetare AUF, Tema Application du plasma froid au traitement des eaux de lavage, parteneri : Université de Paris, Mancy (France), Université de Yaoundé (Cameroun), Universitatea Tehnica « Gh. Asachi » Iasi (Roumanie), funcția în cadrul proiectului: Membru

12. "Pulsed Gliding Arc Electrical Discharge Reactor" supported by the Florida State University Research Foundation (GAP_Program) (1 an), SUA, funcția în cadrul proiectului: Membru

13. Grant PEG (Program Enhancement Grant), USA, "Laboratory for Advanced Chemical Reaction Engineering" at Florida State University-College of Engineering, Florida, USA, funcția în cadrul proiectului: Membru

14. PAI de tip « BRINCUSI », hotărârea MEC din 13.01.2003 cu Nr. 06050RC, Tema: Sistem de aprindere cu plasmă pentru motor de automobil, , coordonator Parteneri : Universitatea Tehnică « Gh. Asachi » Iași, și Centre Universitaire de Bourges (France) Faculté des Sciences, , funcția în cadrul proiectului: Membru

15. Grant NSF (National Science Foundation) / NATO, (DGE-0209555), "High voltage electrochemical reactors for water pollution treatment", Florida State University, College of Engineering, Florida, USA, competiție internațională, Dr. B. Locke (FSU)-PI, R. Burlica (UTI) Co-PI, Grant for International Cooperation (INT-0086351) at Florida State University-College of Engineering, Florida, USA, 2002-2003, funcția în cadrul proiectului: Membru

16. Proiect European, CRAFT, « VOC Oxidation Using electrical discharges and catalytic bed », Contract.G1ST-CT-2001-50147, , participant la University of Rouen, France,, funcția în cadrul proiectului: Membru

17. Francofonie AUF, ESOPE, nr. 6301PS 327, Limitation de solutés organiques polluants d'effluents liquide par plasma non thermique), parteneri : Université de Rouen (France), Université Ougadougou (Burkina-Faso), Université de Yaoundé (Cameroun), Université de Mostaganem (Algérie), Université Technique « Gh. Asachi » Iasi (Roumanie), funcția în cadrul proiectului: Membru

18. Francofonie AUF, nr. 2001 PAS 23, Program tip FICU, Degradation de molecules organiques polluantes dans des eaux de rejet domestique et industriel par décharge électrique, parteneri : Université de Rouen (France), Université Ougadougou (Burkina-Faso), Université de Yaoundé (Cameroun), Université de Mostaganem (Algérie), Université Technique « Gh. Asachi » Iasi,, funcția în cadrul proiectului: Membru

L. Premii, distincții.

- 1.IEEE-Creativity and Innovation Price Paper Award - 2009
- 2.Florida State University –INNOVATOR AWARD -2007
- 3.Florida State University –INNOVATOR AWARD -2011

M. Alte realizări semnificative.

Data,
26.04.2021

Prof.dr.ing. Radu Burlică

**Lista de lucrări în domeniul de studii universitare de licență *Inginerie electrică*
BUTNARIU Anca**

A. Teza de doctorat.

Butnariu Anca, "Cercetări privind conceptul de dezvoltare durabilă", 2015, Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de doctorat "Inginerie și management", conducător de doctorat prof.dr.ing. Silvia Avasilcăi

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCIS.

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C2. Filipeanu Dumitru, **Butnariu Anca**, *Economie generala. Suport de curs*. Editura Performantica Iași, 2016, 200 pagini, ISBN 978-606-685-427-6

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D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

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F5. **Butnariu A.**, Luca F.A., *An index of sustainable economic welfare for Romania*, New Trends and Issues Proceedings on Humanities and Social Sciences, 2019, 6(8), pp 001-010 , indexat Google Scholar, indexat **Conference Proceedings Citation Index**.

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F11. **Butnariu A.**, Avasilcăi S. (2015), *The Relation between Proactive Environmental Strategies and Competitive Advantage*, IOP Conf. Series: Materials Science and Engineering 95(1), <http://iopscience.iop.org/article/10.1088/1757-899X/95/1/012137/pdf>, Proceedings Paper, indexată ISI, Scopus.

F12. **Butnariu A.**, Avasilcăi S., The influence of the environmental organisational capabilities on the competitive advantage, Annals of the Oradea University, Fascicle of Management and Technological Engineering, 24/ 1, 2015, pp.75-78, indexata Ulrichs, Web Global series, ICAAP, INTUTE, Index Copernicus International

F13. **Butnariu A.**, Avasilcăi S., *Research on the possibility to apply Ecological Footprint as environmental performance indicator for the textile industry*, Procedia - Social and Behavioral Sciences, Volume 124, 20 March 2014, Pages 344-350, indexat Elsevier si Scopus, ISI Proceedings

F14. **Butnariu A.**, Avasilcăi S., *Initiatives of textile industry organizations towards environmental issues*, Advanced Materials Research Vol. 837 (2014) pp 612-617, indexat ISI Conference Proceedings Citation Index, Scopus

F15. **Butnariu A.**, Condurache Gh., SWOT analysis of the efficiency in the production of technological steam for the textile materials finishing, revista Industria Textilă, vol.64/ 6, 2013, pp. 342-345, indexata ISI, FI 0.475

F16. **Butnariu A.**, Avasilcăi S., Industrial ecology, a new manufacturing paradigm, Annals of the Oradea University, Fascicle of Management and Technological Engineering, vol. XII(XIII), 1/2013 indexata Ulrichs, Web Global series, ICAAP, INTUTE, Index Copernicus International

F17. **Butnariu A.**, Berariu R., Luca F., Berteau A., *Perceived natural environmental uncertainty in Romanian textile industry*, Proceedings of the 7th International Conference "Management of Technological Changes", Alexandroupolis, Greece, sept. 2011, indexata ISI Web of Knowledge, book 2, pp.25-28

F18. Luca F.A., **Butnariu A.**, Ioan C., *Adaptability of the Romanian higher education system to the technological development requirements of the private sector, seen as the main workforce beneficiary*, Proceedings of the 7th International Conference "Management of Technological Changes", Alexandroupolis, Greece, sept. 2011, indexata ISI Web of Knowledge, book 2, pp.377-380

F19. Berteau A.F., **Butnariu A.**, Berteau A., *New recycling technology for sustainable finishing of polyamide fabrics*, Proceedings of the 7th International Conference "Management of Technological Changes", Alexandroupolis, Greece, sept. 2011, indexata ISI Web of Knowledge, book 2, pp.17-20

F20. Berteau A.F., **Butnariu A.**, Berteau A., *Technological changes towards sustainability in the finishing of acrylic fabrics*, Proceedings of the 7th International Conference "Management of Technological Changes", Alexandroupolis, Greece, sept. 2011, indexata ISI Web of Knowledge, book 2, pp.21-24

G. Lucrări științifice publicate în reviste din străinătate.

G1. Butnariu, A.: "Gestiunea portofoliului de titluri financiare" - Analele Științifice ale Universității de Stat din Moldova, vol. II, Chișinău, 2004.

G2. Butnariu A.: "Integrarea României în Uniunea europeană - avantaje și riscuri", Analele Științifice ale Universității de Stat din Moldova, Chișinău, 2005

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

H1. Butnariu A., A model of CSR adoption in textile industry, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Tomul LXI (LXV), Fasc. 3-4, 2015, Secția ȘTIINȚE SOCIO-UMANE

H2. Butnariu A., Strategii de selectare a piețelor externe țintă, Univers Economic, nr.3-4(6), 2010

H3. Butnariu A., The place of BAT and eco-efficiency in a strategic model of sustainability, Univers Economic, nr. 2(5), 2010

H4. Butnariu A., Contabilitatea mediului și indicatorii de mediu, Univers Economic, nr. 5(4), 2010

H5. Butnariu A., Irimia M., Measuring the Corporate Responsibility, Means and Concerns, Univers Economic, nr. 4(3), 2009

H6. Irimia, M.P., Butnariu A.: „Controversial aspects of european economy”, Buletinul Institutului Politehnic, secția Științe Socio-Umane, Tomul LV, Fasc.1, 2009.

H7. Butnariu A.: „Metode de cuantificare a valorii economice a bunurilor de mediu”, Rev. Univers Economic, Univ. Gh. Zane Iași, nr. 2-3(3), 2009.

H8. Irimia, M.P., Butnariu A.: „Perspectives of the flexibility of labour market in modern economies”, Buletinul Institutului Politehnic, secția Științe Socio-Umane, Tomul LIV(LVIII), Fasc. 2, 2008.

H9. Irimia, M.P., Butnariu A.: “The product cost and the decision to offer on the market”, Buletinul Institutului Politehnic-seria Textile Pielărie, nr.1/2006.

H10. Irimia, M.P., Butnariu, A.: “Salariul și sistemul de recompense în economia de piață”, Revista Română de Textile Pielărie, nr.2/2005.

H11. Irimia, M.P., Butnariu A.: “The relation between the management of the company and its functions”, Buletinul Institutului Politehnic-seria Textile Pielărie, Tomul LI(LV), Fasc. 3-4, 2005.

I. Lucrări științifice publicate în volumele conferințelor.

I1. Filipeanu D., Anton E., **Butnariu A.**, Luca F.A., Crișan R., *Resurse economice, calitate și etică în sistemul de sănătate, IMPROVE – 7 - 9 decembrie 2016* – Prima conferință cu participare națională dedicată științei îmbunătățirii marketingului medical și comunicării între profesioniștii din sistemul sanitar și profesioniștii din marketing <http://www.ispro.ro/files/Conferinta%20IMPROVE,%20Iasi,%207-9%20decembrie%202016.pdf>

I2. Filipeanu D., Crișan Dabija R., Luca F.A., Anton E., **Butnariu A.**, *Rolul și scopul controlului ca activitate de conducere în spitalele publice din Romania, IMPROVE – 7 - 9 decembrie 2016* – Prima conferință cu participare națională dedicată științei îmbunătățirii marketingului medical și comunicării între profesioniștii din sistemul sanitar și profesioniștii din marketing, <http://www.ispro.ro/files/Conferinta%20IMPROVE,%20Iasi,%207-9%20decembrie%202016.pdf>

I3. **Butnariu A.**, Avasilcăi S., *Environmental management and competitiveness in Romanian textile industry*, Proceedings of the 15th Romanian Textile and Leather Conference, 2014.

I4. **Butnariu A.**, *Corporate sustainability and corporate social responsibility: conceptual delimitations*, articol prezentat la "Conferința Educație, Profesionalizare, Cunoaștere" - EPC 2013, publicat în Buletinul Institutului Politehnic din Iași, secția Socio-Umane, Tomul LX(LXIV), Fasc. 3-4, 2014, pp.51-57.

I5. **Butnariu A.**, Avasilcăi S., *Research on the influence factors for the environmental management performance of textile Romanian firms*, Proceedings of the 3rd Review of Management and Economic Engineering International Management Conference, “A new dilemma: between East and West”, Cluj Napoca, sept.2012, Editura Todesco Publishing House ISSN: 2247-8639

I6. **Butnariu A.** : “The business success and the sustainable development”, conferința internațională CORTEP 2007, publicat în Buletinul Institutului Politehnic din Iași, vol. I, fascicolul 5/2007

J. Invenții.

K. Contracte de cercetare.

K1. PN-III-P1-1.1-MCT-2019-0100 buget- 9,176.00 RON

K2. Planul national de cercetare dezvoltare si inovare pentru perioada 2015-2020 PN-III-P1-1.1-MCT-2017-0036, membru - 7,636.00 RON Proiecte de mobilitate pentru tineri cercetatori din diaspora

K3. CEEX 106/2006 - Cercetari exploratorii privind crearea si dezvoltarea interfetei consumator - produs de incaltaminte in vederea realizarii rapide a prototipurilor, Acronim: ExplorVIRT (CEEX-M1-C2-1738)-120.000 RON

L. Premii, distincții.

M. Alte realizări semnificative.

Data,
1.03.2026

Nume, semnătura

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

BUTNICU DAN

A. Teza de doctorat

“Cercetări privind selecția componentelor folosind fiabilitatea și stadiul lor tehnologic pentru convertoarele DC-DC de mare putere și joasă tensiune”.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

Capitole de carte:

1. D. Butnicu – “Comparative study for DC-DC converter output banks reliability evaluation using prediction standards MIL-HDBK-217 F vs. Telcordia SR-332”, chapter in the book “ADVANCES IN ENERGY RESEARCH- 5TH Edition”, edited by , pp. 4-5, VIDE-LEAF Publisher, 2025, ISBN:978-93-92117-36-7; Crossref DOI/ Prefix 10.37247
2. D. Butnicu, Daniela Ionescu² and Maria Kovaci – “ Structure Optimization of Some Single Ion Conducting Polymer Electrolytes with Increased Conductivity Used in “Beyond Lithium-Ion” Batteries”, chapter in the book “ Prime Archives in Polymer Technology: 2nd Edition”, edited by , pp. , VIDE-LEAF Publisher, 2025, ISBN: 978-93-92117-31-2; Crossref DOI/ Prefix 10.37247
3. D. Butnicu – “ A Derating-Sensitive Tantalum Polymer Capacitor’s Failure Rate within a DC-DC eGaN-FET-Based PoL Converter Workbench Study”, chapter in the book “ Prime Archives in Electronics -1st Edition”, edited by , pp. , VIDE-LEAF Publisher, 2025, ISBN: 978-93-90014-22-4; Crossref DOI/ Prefix 10.37247
4. D. Butnicu, and A. Lazar – “ Workbench Study Concerning the Highest Reliability Outcome for PoL Converters with Different Output Capacitor Technologies”, chapter in the book “ Advances in Energy Research: 5th Edition”, edited by , pp. , VIDE-LEAF Publisher, 2025, ISBN: 978-93-92117-36-7; Crossref DOI/ Prefix 10.37247

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

Carte de specialitate:

Dan Butnicu – „Ghid pentru studiul Dispozitivelor și Circuitelor Electronice utilizând OrCAD-SPICE” Editura Tehnopress, Iași, 2025 ISBN 978-606-687-535-6 (203 pagini, format academic)

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

1. Curs Electronica (TEAMS)
2. Culegere de probleme de electronica (TEAMS)

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. Dan Butnicu, Dorin O. Neacsu, “A Case Study for Reliability Evaluation of an External Computer Power Supply”, Electric Power Components and Systems Journal, 2019, Pages 444-455 | Received 09 Feb 2018, Accepted 14 Jan 2019, Published online: 08 Jul 2019, <https://doi.org/10.1080/15325008.2019.1606124>

2. Butnicu, D. A Derating-Sensitive Tantalum Polymer Capacitor's Failure Rate within a DC-DC eGaN-FET-Based PoL Converter Workbench Study. Micromachines 2023, 14, 221. <https://doi.org/10.3390/mi14010221>

3. D.O. Neacsu, M. Cirstea, D. Butnicu, "Comparative Reliability Analysis for Resonant Converter Operation Under Component Ageing," in IEEE Journal of Emerging and Selected Topics in Industrial Electronics, vol. 2, no. 2, pp. 142-154, April 2021, doi: 10.1109/JESTIE.2020.3044515.
4. Butnicu, D.; Lazar, A. Workbench Study Concerning the Highest Reliability Outcome for PoL Converters with Different Output Capacitor Technologies. Energies 2023, 16, 2768. <https://doi.org/10.3390/en16062768>
5. D. Butnicu, D. O. Neacsu and A. Cracan, "A Study of Switching Frequency Impact on Reliability of DC-DC PoL Converters With Discrete Transistors," in IEEE Transactions on Industry Applications, vol. 59, no. 5, pp. 6373-6383, Sept.-Oct. 2023, doi: 10.1109/TIA.2023.3291675.
6. Butnicu D, Ionescu D, Kovaci M. Structure Optimization of Some Single-Ion Conducting Polymer Electrolytes with Increased Conductivity Used in "Beyond Lithium-Ion" Batteries. Polymers (Basel). 2024 Jan 29;16(3):368. doi: 10.3390/polym16030368.
7. Butnicu, D. Comparative Study for DC-DC Converter Output Bank's Reliability Evaluation Using Prediction Standards MIL-HDBK-217F vs. Telcordia SR-332. Energies 2024, 17, 3957. <https://doi.org/10.3390/en17163957>
8. Butnicu, D.; Bonteanu, G. MTBF-PoL Reliability Evaluation and Comparison Using Prediction Standard MIL-HDBK-217F vs. SN 29500. Electronics 2025, 14, 2538. <https://doi.org/10.3390/electronics14132538>

Articole publicate în reviste indexate în baze de date internaționale (BDI)

1. D.O.Neacșu, Dan Butnicu, "On the reliability performance degradation due to misalignment of zero-voltage transition resonant converter operation", bulipi-eee.tuiasi.ro – http://www.bulipi-eee.tuiasi.ro/archive/2029/fasc.2/p5_f2_2019.pdf
2. Nicoleta Roxana BUZATU, Dimitrie ALEXA, Georgian Alexandru LAZAR, Dan Butnicu, Oana Loredana BUZATU, Razvan VIERIU, " A THREE LEVEL VOLTAGE INVERTER USED FOR AN INDUCTION MOTOR CONTROL" , ACTA TECHNICA NAPOCENSIS Electronics and Telecommunications, Volume 51, Number 3, 2010. http://users.utcluj.ro/~atn/papers/ATN_3_2010_9.pdf

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

1. A. Lazar, M. Florea, D. Burdia, L. -C. Lazar, G. -A. Lazar and D. Butnicu, "A bandgap reference circuit design for Power-on Reset related circuits," 2009 International Symposium on Signals, Circuits and Systems, 2009, pp. 1-4, doi: 10.1109/ISSCS.2009.5206159.
2. Dan Butnicu, Dorin O. Neacsu, "Using SPICE for multiple-constraint choice of capacitor bank for telecom power supplies," 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME), 2017, pp. 86-89, doi: 10.1109/SIITME.2017.8259863.
3. Dan Butnicu, Dorin O. Neacsu, "Using SPICE for reliability based design of capacitor bank for telecom power supplies," 2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME), 2017, pp. 423-426, doi: 10.1109/SIITME.2017.8259939.
4. Dorin O. Neacsu, Dan Butnicu, "A review and ultimate solution for output filters for high-power low-voltage DC/DC converters," 2017 International Symposium on Signals, Circuits and Systems (ISSCS), 2017, pp. 1-4, doi: 10.1109/ISSCS.2017.8034882.

5. Dan Butnicu, Luminița-Camelia Lazăr, "A Simple Procedure to Detect Failed Capacitor Within a Parallel Bank of MLCCs," 2018 IEEE 24th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2018, pp. 152-155, doi: 10.1109/SIITME.2018.8599281.
6. Dan Butnicu, "A Reliability Comparison between Disrupting eGaN-FET and Cutting Edge Silicon MOSFET Devices in POL Buck Converters," 2019 International Symposium on Signals, Circuits and Systems (ISSCS), 2019, pp. 1-4, doi: 10.1109/ISSCS.2019.8801747.
7. Dan Butnicu, Dorin O. Neacsu, Cristian M. Neacsu, "Reliability Calculation Method for Output Capacitor Bank used in Telecom Power Supplies," 2019 IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2019, pp. 363-366, doi: 10.1109/SIITME47687.2019.8990892.
8. Dan Butnicu, Luminița-Camelia Lazăr, "Avoiding Expensive Specialized Equipment in Testing the Stability of a Buck Converter Using Time Domain Analysis," 2019 IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2019, pp. 383-386, doi: 10.1109/SIITME47687.2019.8990835.
9. Dan Butnicu, Alexandru Lazar, "Why Choose Polymer Electrolytic Output Capacitors for Maximum Ripple Capability and Reliability Performance within eGaN based POL Converters," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), 2020, pp. 012-015, doi: 10.1109/EPE50722.2020.9305652.
10. Dan Butnicu, Luminița-Camelia Lazăr, "DC/DC Converter Output Capacitor Bank's Reliability Comparison using Prediction Standard MIL-HDBK-217F and IEC 61709," 2020 IEEE 26th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2020, pp. 346-349, doi: 10.1109/SIIT2E50350.2020.9292164.
11. Dan Butnicu, Luminița-Camelia Lazăr, "An Efficiency Comparative Workbench Study of eGaN and Silicon Discrete Transistor based Buck Converters", 2020 IEEE 26th International Symposium for Design and Technology in Electronic Packaging (SIITME). Year: 2020 | Conference Paper | Publisher: IEEE. DOI: 10.1109/SIITME50350.2020.9292195
12. Dan Butnicu, Arcadie Cracan, Dorin O. Neacsu, "A Study of Switching Frequency Impact on Reliability of DC-DC PoL Converters with Discrete Transistors," 2021 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2021 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), 2021, pp. 300-309, doi: 10.1109/OPTIM-ACEMP50812.2021.9590018.
13. Dan Butnicu, "POL DC-DC Converter Output Capacitor Bank's Reliability Comparison using Prediction Standard MIL-HDBK-217F and SN 29500," 2021 IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2021, pp. 169-172, doi: 10.1109/SIITME53254.2021.9663431.
14. Dan Butnicu, "A Review of Failure Rate Calculation's Differences Due to Package for IEC-TR-62380 vs. other Prediction Standards," 2021 IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2021, pp. 250-253, doi: 10.1109/SIITME53254.2021.9663584.
15. Dan Butnicu, R. Tristu, "Practical Considerations for Using Telcordia SR-332 Reliability Standard Prediction Applied to a DC-DC PoL Converter Case," 2022 IEEE 9th Electronics System-Integration Technology Conference (ESTC), 2022, pp. 498-503, doi: 10.1109/ESTC55720.2022.9939540.
16. Dan Butnicu, "Workbench Study of Loading Consequences on Reliability of DC-DC PoL Converters Based on Discrete Transistors," 2022 IEEE 28th International Symposium for Design and Technology in Electronic Packaging (SIITME), 2022, pp. 142-145, doi: 10.1109/SIITME56728.2022.9987935.
17. D. Butnicu and R. Tristu, "IR-Scanning vs. PSIM-Thermal Simulation concerning πT Stress Factor used in DC-DC Converter's Reliability Calculation.,", 2023 IEEE 29th International Symposium for Design and Technology in Electronic Packaging (SIITME), Craiova, Romania, 2023, pp. 77-80, doi: 10.1109/SIITME59799.2023.10431124.
19. D. Butnicu and D. O. Neacsu, "A PSIM-Based Tool for Quick Failure Rate Estimation for a DC-DC Converter," 2024 IEEE International Communications Energy Conference (INTELEC), Bengaluru, India, 2024, pp. 1-6, doi: 10.1109/INTELEC60315.2024.10679014.
20. Dan Butnicu, R. Tristu, "Comparative Workbench study about MTBF for PoL Buck-Converters: Asynchronous vs. synchronous," 2024 IEEE 9th Electronics System-Integration Technology Conference (ESTC), Sibiu 2024,

21. Dan Butnicu, D. Ionescu, I. M. Tamas, "Comparative Workbench Study of MTBF for PoL Converters with discrete Transistors," 2024 IEEE 9th Electronics System-Integration Technology Conference (ESTC), Sibiu 2024
22. D. Ionescu, D. Butnicu, "Influence of the Electrodes Porosity on the Supercapacitors Charging Performance," 2024 IEEE 9th Electronics System-Integration Technology Conference (ESTC), Sibiu 2024,
23. Nicoleta Roxana BUZATU, Dimitrie ALEXA, Georgian Alexandru LAZAR, Dan Butnicu , Oana Loredana BUZATU, "Induction Motor Control with Predicted Maximum Electromagnetic Torque and Speed" , 10th International Conference on DEVELOPMENT AND APPLICATION SYSTEMS, Suceava, Romania, May 27-29, 2010.
24. O. T. Paulet, D. O. Neacsu and D. Butnicu, "Planar Inductor Design Using Mathcad," 2025 14th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2025, pp. 1-6, doi: 10.1109/ATEE66006.2025.11299896.
25. D. Ionescu and D. Butnicu, "Ionic Conductivity Enhancing for Some Eco-Friendly Supercapacitors with Polymeric Gels," 2025 IEEE 31st International Symposium for Design and Technology in Electronic Packaging (SIITME), Brasov, Romania, 2025, pp. 391-396, doi: 10.1109/SIITME67657.2025.11293488.
26. D. Butnicu and D. Ionescu, "In-Circuit Reliability Metrics and ESR-Performance Hands-on Evaluation for PoL Output Filter Capacitor," 2025 IEEE 31st International Symposium for Design and Technology in Electronic Packaging (SIITME), Brasov, Romania, 2025, pp. 367-371, doi: 10.1109/SIITME67657.2025.11293515.
27. D. Butnicu and O. T. Paulet, "Buck Converter MIL-HDBK-217F Reliability's Calculation Revision Using ANSI-VITA 51.1," 2025 IEEE 31st International Symposium for Design and Technology in Electronic Packaging (SIITME), Brasov, Romania, 2025, pp. 273-276, doi: 10.1109/SIITME67657.2025.11293484.

J. Invenții N/A

K. Contracte de cercetare

Programul/Proiectul	Funcția	Perioada
1. Membru, în echipa de cercetare a proiectului cu titlul „Development and comprehensive research using nuclear physics methods of functional environments for ultrahigh-density capacitors based on Zirconia nanopowders for nanoelectronics and microsystem technology” Cod temă 03-4-1128-2017/2022, poziția 83, proiecte comune de cercetare România - IUCN Dubna, Rusia. Valoarea: 4.000 USD	membru	2021-2022
2.Titlul proiectului: Rețea de excelență în cercetare și inovare aplicativă pentru programele de studii doctorale și postdoctorale/InoHubDoc Cod proiect: POCU/993/6/13/153437 30.000 lei	director	2022-2023
3. Director de proiect – Grant National ARUT Obiectul contractului de grant îl constituie finanțarea de către Contractor și execuția de către Executant a proiectului: Reducerea amprenteii CO2 prin predicția MTBF și scanarea IR asupra condensatoarelor electrolitice din SMPS moderne, având codul/ID_259 - GnaC2023; Valoarea grantului: 49.771 lei, reprezentând echivalentul a 10.000 euro Durata contractului: 14 luni	director	2024-2025

L. Premii, distincții

Dan Butnicu, "Workbench Study of Loading Consequences on Reliability of DC-DC PoL Converters Based on Discrete Transistors," 2022 IEEE 28th paper award. International Symposium for Design and Technology in Electronic Packaging (SIITME), 2022, pp. 142-145, doi: 10.1109/SIITME56728.2022.9987935. **Best Poster award**.

M. Alte realizări semnificative

Teza de postdoctorat:

„ Convertoare DC-DC de tip PoL moderne. Abordare „Workbench Hands-on” din perspectiva Fiabilității folosind Standarde Internaționale și Metode de Scanare Termică în Infraroșu pentru Calculul Factorului de Stres πT “ 2023

Webinar IEEE- Power Electronics Society cu tema: “ Workbench Reliability Prediction for PoL Converters using Standards and Temperature IR Detection”, DOI 10.17023/w4bz-x160 susținut în 16 Dec. 2025
(https://resourcecenter.ieee-pels.org/education/webinars/pels_edu_web_butnicu_121625_sld)

Data, 12 martie 2026

Conf. Dr. Ing. Butnicu Dan

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

CAILEANU CORNELIU

A. Teza de doctorat

Utilizarea Sistemelor Discrete pentru Conducerea Adaptiv-Optimală a Acțiunilor Electrice” 1997, Domeniul „Ingineria Sistemelor”, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: prof. dr. ing. Balaban E.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

1. **C. Căileanu**, Gh. Livint, Neural networks in model based control of discrete event systems, in Real World Applications of Intelligent Technologies, Eds. H.J. Zimmermann, M. Gh. Negoita, Dan Dascalu, Editura Academiei Romane, 1995, ISBN: 973-27-0553-1, pag. 185-192.
2. **C. Căileanu**, Algoritmi de comandă a motoarelor de curent alternativ, Editura MATRIX ROM, București, România, 1998, ISBN: 973-9390-13-7.
3. **C. Căileanu**, Sisteme cu evenimente discrete, **Editura Matrix Rom**, 2015, ISBN 978-606-25-0203-4

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

1. **Căileanu C.**, Modelarea și comanda sistemelor cu evenimente discrete – note de curs, www.didatec.ro, programul „Scoala universitară de formare inițială și continuă a personalului didactic și a trainerilor din domeniul specializărilor tehnice și ingineresti - DidaTec”, Cod Contract: POSDRU/87/1.3/S/60891, 2014.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. **C. Căileanu**, J.L. Ferrier, Digital control of an unstable system : Ball and Beam, the 4-th International Symposium on Automatic Control and Computer Science, 29-30 octombrie 1993, Iași, România, vol.1, pag. 216-221. (**The open archive HAL – hal.archives.ouvertes.fr - HAL Id : hal-00843137**).
2. **C. Căileanu**, An Agent-based Approach to Induction Motor Drives Control, IEEE Conference INES'97, 15-17 September 1997, Budapest, Hungary, pag. 351-355
3. **C. Căileanu**, Deterministic Timed Event Graphs Identification, 40th IEEE Conference on Decision and Control, Orlando, Florida, USA, December 4-7, 2001, pp.4996-4997
4. **C. Căileanu**, Reliability Calculus using Max-Plus Algebra, 16th IFAC Congress, Prague, Czech Republic, July, 3-8, 2005

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

1. Gh. Livint, **C. Căileanu**, J.L. Boimond, J.L. Ferrier, Considerations on discrete event systems modelling and control, Buletinul Institutului Politehnic Iași, Tomul XLI (XLV), Facs. 5, 1995, Secția III, Electrotehnica, Energetica, Electronica, pag. 963-972.
2. **C. Căileanu**, Gh. Livint, Neural networks for discrete event systems identification, Buletinul Institutului Politehnic Iași, Tomul XLI (XLV), Facs. 5, 1995, Secția III, Electrotehnică, Energetică, Electronică, pag. 973-980.

I. Lucrări științifice publicate în volumele conferințelor

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2. C. Neaga, **C. Căileanu**, Pachet de programe pentru analiza automatelor programabile pe cuvânt, al III-lea Simpozion Național 'Structuri, algoritmi și echipamente de comandă a proceselor industriale', 25-26 octombrie 1991, Iași, România, vol.2, pag. 153-157.
3. Gh. Livint, R. Olaru, **C. Căileanu**, C. Cotae, The determination of the static characteristics of screened inductive transducers with magnetic fluids, the 6-th International Conference on Magnetic Fluids, 20-24 July 1992, Paris, France, pag. 530-531.
4. **C. Căileanu**, Gh. Livint, Comanda cu model intern a motoarelor electrice de curent continuu, Conferința' Electrotehnica-80', 22-24 octombrie 1992, Iași, România, vol.II, pag. 45-50.
5. **C. Căileanu**, Evolution strategies for system identification, the 4-th International Symposium on Automatic Control and Computer Science, 29-30 octombrie 1993, Iași, România, vol.1, pag. 66-71.
6. Gh. Livint, **C. Căileanu**, Internal model control structures for position control systems with DC motors, the 4-th International Symposium on Automatic Control and Computer Science, 29-30 octombrie 1993, Iași, România, vol.1, pag. 205-210.
7. **C. Căileanu**, Gh. Livint, Flexible digital control for DC motors, the 4-th International Symposium on Automatic Control and Computer Science, 29-30 octombrie 1993, Iași, România, vol.1, pag. 211-215.
8. **C. Căileanu**, J.L. Ferrier, Digital control of an unstable system : Ball and Beam, the 4-th International Symposium on Automatic Control and Computer Science, 29-30 octombrie 1993, Iași, România, vol.1, pag. 216-221. (**The open archive HAL – hal.archives.ouvertes.fr - HAL Id : hal-00843137**).
9. **C. Căileanu**, Multiple run approach for system identification, the 8-th Symposium of Modelling, Simulation and Identification Systems, 21-22 octombrie 1994, Galați, România, vol.1 pag. 27-32.
10. **C. Căileanu**, Considerations on Bond-Graphs for system modelling (1), the 8-th Symposium of Modelling, Simulation and Identification Systems, 21-22 octombrie 1994, Galați, România, vol.1 pag. 33-42.
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12. C. Calistru, **C. Căileanu**, Symbolic calculus : an efficient way of solving control and optimization problems, the 10-th International Conference on Control Systems and Computer Science, 24-26 mai 1995, București, România, vol. 1, pag. 203-206.
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21. **C. Căileanu**, Considerations on model reference adaptive control of induction motors, Simpozionul National de Automatica și Testare, Cluj-Napoca, România, 23-24 mai, 1996, pag. 229-234.
22. **C. Căileanu**, Adaptive Control of Induction Motors Using Artificial Neural Networks, World Multiconference SCI'97/ISAS'97, 7-11 July, 1997, Caracas, Venezuela, Vol.3, pag. 143-150.
23. **C. Căileanu**, An Agent-based Approach to Induction Motor Drives Control, IEEE Conference INES'97, 15-17 September 1997, Budapest, Hungary, pag. 351-355.
24. **C. Căileanu**, Comanda Neliniara Adaptiva a Acțiunilor Electrice cu Motoare Asincrone, Conferința Internațională SIELMEC'97, 16-18 Octombrie, 1997, Chișinău, Moldova, Vol. 2, pag. 86-89.
25. **C. Căileanu**, Intelligent Control of AC Drives, Conferința Națională de Acțiuni Electrice, 8-9 octombrie 1998, Craiova, România, pag. 179-184.
26. **C. Căileanu**, J.L. Boimond, Considerations on Discrete-Event Dynamic Systems Identification, Proceedings of the SCI2000 Conference, Orlando Florida, USA, July 23-26, 2000, Vol.8, Part II, pp.324-329.
27. **C. Căileanu**, On-line Algorithms for Deterministic Timed Event Graphs Identification, Proceedings of the 9th Mediterranean Conference on Control and Automation, June 27-29, 2001, Dubrovnik, Croatia (CD).
28. **C. Căileanu**, Considerations on Timed Event Graphs Identification, Preprints of the Workshop on Max-Plus Algebras, Prague, Czech Republic, August 27-29, 2001, pp.63-69.
29. **C. Căileanu**, Deterministic Timed Event Graphs Identification, 40th IEEE Conference on Decision and Control, Orlando, Florida, USA, December 4-7, 2001, pp.4996-4997.
30. **C. Căileanu**, Reliability Calculus using Max-Plus Algebra, Proceedings of the 16th IFAC Congress, Prague, Czech Republic, 2005, Volume # 16 | Part# 1, pp. 1814-1814, ISBN 978-3-902661-75-3.

J. Invenții

K. Contracte de cercetare

1. Contract nr. 653/1990, Beneficiar: Institutul de Fizică Atomică București - Cercetări privind realizarea traductorilor electrici de presiune, Responsabil contract: Dr. Horia Chiriac, Institutul de Fizică Tehnică Iași
2. Contract nr. 703/1990, Beneficiar: Institutul de Fizică Atomică București - Cercetări privind realizarea de instalații de testare a caracteristicilor magnetice, Responsabil contract: Dr. Horia Chiriac – Institutul de Fizică Tehnică Iași
3. Contract nr. 8602/1991, plan intern, Universitatea Tehnică Iași - Identificarea Statistică a Proceselor, Responsabil contract: Prof. dr. ing. Gh. Livint.

4. Contract nr. 8506/1993, plan intern, Universitatea Tehnică Iași - Modelarea unor procese tehnice în vederea conducerii cu calculatoare numerice, Responsabil contract: Prof. dr. ing. Gh. Livint.
5. Contract nr. 36894/1994, Beneficiar: Ministerul Învățământului, – Structuri și algoritmi de reglare numerică a proceselor industriale, Responsabil contract: Prof. dr. ing. Gh. Livint.
6. Grant Intel Galileo, 2014 (responsabil grant). Programul universitar Intel Galileo.

L. Premii, distincții

M. Alte realizări semnificative

1. Programul academic IBM: 2002-2005, Inițiativa academică IBM.
2. Programul universitar Texas Instruments (Microcontrolere MSP430): 2005.
3. Programul universitar EEMBC (Embedded Systems Benchmarking): 2008
4. Programul universitar Cypress:2009.
5. Programul universitar IoT - PTC/ThingWorx: 2014
6. Programul Intel FPGA Academy 2021
7. Programul Universitar AMD Xilinx, 2022
8. Programul universitar SoftwareAG, 2023
9. Programul NVIDIA Teaching Kits Member Area, 2023.
10. Programul universitar Cumulocity, 2024.
11. Programul universitar Altera University Program, 2026

Data, 01.03.2026

Sef lucr. Dr. ing. .Caileanu Corneliu..

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

CEUCĂ RĂZVAN-DUMITRU

A. Teza de doctorat.

Institutie: *Universidad del Pais Vasco, Bilbao, Spania*

Perioada: 2018-2022

Îndrumator: Arghir-Dani Zărnescu (BCAM, Bilbao & IMAR, București) & Eugen Vărvărucă (UAIC, Iași)

Titlul tezei: Various results concerning homogenisation of nematic liquid crystals

Titlul: Doctor în Matematică (Cum Laudae, Doctorat Internațional), Registro Nacional de Titulos – 2022320736, Código de CENTRO – 48012838, Registro Universitario de Titulos – 202208062, susținută pe 17.10.2022, diplomă eliberată pe 02.11.2022

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

- Articole publicate în reviste cotate ISI

1. Ceucă, R.D., Taylor, J. M., Zărnescu, A. D., *Effective surface energies in nematic liquid crystals as homogenised rugosity effects*. Communications in Contemporary Mathematics, Volume 25, Issue 06, August 2023.
2. Ceucă, R.D., *Cubic microlattices embedded in nematic liquid crystals: a Landau-de Gennes study*. ESAIM: Control, Optimization and Calculus of Variations, Volume 27, Article Number 95, October 2021.

- Articole publicate în volume indexate ISI Proceedings

- Articole indexate în baze de date internaționale

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

I. Lucrări științifice publicate în volumele conferințelor.

J. Invenții.

K. Contracte de cercetare.

Membru în colectiv

1. Membru în calitate de student masterand în grantul de cercetare *Mathematical methods applied in the study of nonlinear mechanical systems*, PN-III-P1-1.1-TE-2016-2314, PI: Prof. Dr. Ionel-Dumitrel Ghiba, Universitatea Alexandru Ioan Cuza, Iași, România, 8 iulie 2019 – 31 octombrie 2019
2. Postdoc fellowship, Hausdorff Research Institute for Mathematics, Bonn, Germania, 7 ianuarie 2023 – 4 februarie 2023

L. Premii, distincții.

M. Alte realizări semnificative.

Publicații în baze de date de preprinturi:

1. Rusconi, S., Schenk, C., Ceucă, R.D., Zărnescu, A.D., Akhmatskaya, E., *Complexity reduction of physical models: an equation-free approach by means of scaling*, arXiv, 2025.

Publicații pentru mediul preuniversitar:

1. Ceucă, R. D., Iacob, I., Plugariu, A., *Evaluare Națională pentru clasa a VIII-a. Matematică. Subiectul I. Algebră. Clasa a V-a*, 2025, editura Intuitext
2. Brumar, D., Cicu, I., Coroian, M. A., Olărașu, L., Ceucă, R. D., Iacob, I., Ciurcea, R., Mareș, S., *Matematică 5.1. Culegere*, 2024, editura Intuitext
3. Cicu, I., Smarandache, S., Iacob, I., Ceucă, R. D., *Matematică - Manual pentru clasa a V-a*, ediția 2022, Intuitext
4. Cicu, I., David, E. M., Iacob, I., Ceucă, R. D., *Matematică. Clasa a VIII-a*, Manual școlar, 2020, editura Intuitext
5. Cicu, I., Mareș, S., Iacob, I., Ceucă, R. D., Băleanu, A., *Matematică. Clasa a VII-a*, Manual școlar, 2019, editura Intuitext
6. Cicu, I., Mareș, S., Iacob, I., Ceucă, R. D., Băleanu, A., *Matematică. Suport teoretic și exerciții aplicative. Clasa a VI-a*, 2018, editura Intuitext
7. Cicu, I., Smarandache, S., Mareș, S., Iacob, I., Ceucă, R. D., *Culegere de matematică. Clasa a V-a*, 2017, editura Intuitext

Data,

Asist. Univ. Dr. Mat. Răzvan-Dumitru Ceucă

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Prof. dr. ing. Ciobanu Romeo-Cristian

A. Teza de doctorat.

1. 1992, Univ. Politehnica Bucuresti, Domeniul Inginerie Electronica
2. 1997, Univ. Tehnica Iasi, Domeniul Inginerie Chimica

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Ciobanu D., Ciobanu R., CHIMIA PRODUSELOR ALIMENTARE I, 312 pag, Ed. Tehnica Kishinew, Rep. Moldova, ISBN 9975-63-036-7
2. Ciobanu D., Ciobanu R., CHIMIA PRODUSELOR ALIMENTARE II, 409 pag, 2001, Ed. Tehnica Kishinew, Rep. Moldova, ISBN 9975-63-063-4,
3. Ciobanu D., Ciobanu R., CHIMIA MEDIULUI AMBIANT – INVESTIGATII ANALITICE, 200, 180 pag, Ed. Tehnica-INFO Kishinew, Rep. Moldova, ISBN 9975-63-036-7
4. Ciobanu D., Ciobanu R., CHIMIA MEDIULUI AMBIENT, 2001, 236 pag, Ed. Tehnica-INFO Kishinew, Rep. Moldova, ISBN 9975-63-060-1
5. Ciobanu D., Nedeff V., Ciobanu R., SURSE SI FACTORI DE POLUARE CHIMICA IN DIFERITE MEDII INDUSTRIALE –PARTEA 1-A: DEPOLUAREA PRIN VALORIFICARE, 2002, 327 pag., –Ed. Tehnica-INFO Kishinew, Rep. Moldova, ISBN 9975-63-123-1

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

1. Mihaela Aradoaei, Romeo Cristian Ciobanu, Chimie - Elemente de electrochimie – Îndrumar de laborator, Teste și Probleme, Editura PIM, Iași, 2023, ISBN 978-606-13-7818-0, pp. 221.
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3. Aradoaei Mihaela, Romeo Cristian Ciobanu, Aradoaei Sebastian Teodor, Caracterizarea biocompozitelor reciclate cu destinația electrotehnică, Editura Pim Iași, 2019, ISBN978-606-13-5040-7, pp.192.
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7. Ciobanu R., Schreiner C., Hutu C., EXPERT SYSTEMS FOR TQM IMPLEMENTATION AND SURVEY DEDICATED TO SMES, IN MANAGEMENT OF TECHNOLOGICAL CHANGES, 370-379 pag 2001, C. RUSU EDITOR – Ed. Economica Bucuresti, Romania, ISBN 973-590-580-9
8. Ciobanu R., CALITATEA ȘI FIABILITATEA MATERIALELOR ELECTROIZOLANTE FIBROASE, 153 pag., 2002, Ed. Politehniun, Iasi, Romania, ISBN 973-8292-17-4

9. Adam M., Baraboi A., Ciobanu R., MONITORIZAREA SI DIAGNOSTICAREA INTRERUPTOARELOR DE PUTERE, 241 pag., 2001, Ed. Politehniun, Iasi, Romania, ISBN 973-8292-18-2,
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12. Schreiner C., Adam M., Ciobanu R., CERCETARI PRIVIND CALITATEA SI FIABILITATEA IN INGINERIA ELECTRICA, 143 pag., 2003, Ed. Politehniun, Iasi, Romania, ISBN 973-621-031-6
13. Schreiner C., Ciobanu R., Baraboi A., STUDII PRIVIND CALITATEA SI FIABILITATEA IN INGINERIA ELECTRICA, 189 pag., 2003, Ed. Politehniun, Romania, ISBN 973-621-032-4
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15. Olariu M., Ciobanu R., Arădoaei S., CERCETĂRI PRIVIND ASIGURAREA CALITĂȚII MICRO- ȘI NANOMATERIALELOR PE BAZA ANALIZEI SARCINII ELECTRICE SPAȚIALE, 124 pag., Editura PIM (2009), ISBN 978-606-520-675-5, ,
16. Arădoaei S., Ciobanu R., Olariu M., Constantinescu G., CERCETĂRI PRIVIND ANALIZA CALITĂȚII MATERIALELOR ELECTROIZOLANTE PRIN METODA SPECTROSCOPIEI DIELECTRICE, 193 pag., Editura PIM Iasi (2009), ISBN 978-606-520-674-8
17. Georgescu Gh., Neagu B., Ciobanu R., PROIECTAREA ȘI EXPLOATAREA ASISTATĂ DE CALCULATOR A SISTEMELOR PUBLICE DE REPARTIȚIE ȘI DISTRIBUȚIE A ENERGIEI ELECTRICE, Vol. 1, partea a-II-a, 586 pag., Ed. Pim, Iași, 2011, ISBN 978-606-13-0148-5.
18. Ciobanu R., Tulbure M., Feraru A.G., APLICAȚII ALE METODELOR DE ANALIZĂ PENTRU DIMINUAREA POLUĂRII MEDIULUI ȘI VALORIFICAREA SUPERIOARĂ A UNOR SUBPRODUSE DIN INDUSTRIA ALIMENTARĂ, Editura PIM Iasi (2010), ISBN 978-606-520-672-4
19. Schreiner C., Ciobanu R., Tulbure M., INVESTIGAȚII TEHNICO-ANALITICE SPECIFICE MINIMIZĂRII SCĂZĂMINTELOR TEHNOLOGICE ÎN INDUSTRIA ALIMENTARĂ :INVESTIGAȚII TEHNICO-ANALITICE, Editura PIM Iasi (2010), ISBN 978-606-520-671-7
20. Aradoaei M., Ciobanu R., Aradoaei S., Caracterizarea biocompozitelor reciclate cu destinația electrotehnică, Editura Pim Iași, 2019, ISBN 978-606-13-5040-7, pp.192

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Ciobanu D., Fînaru A., Ciobanu R., Gavrilă I., Miron D., CHIMIE ANALITICĂ: curs 337pag., 1992 Ed Universitatea din Bacău, CHIMIE GENERALĂ: curs - vol. 1
2. Ciobanu D., Fînaru A., Ciobanu R., Gavrilă I., Miron D., CHIMIE GENERALĂ: curs vol. 2, 339 pag., 1992, Ed. Universitatea din Bacău
3. Ciobanu R., Caliman R., TEHNOLOGIA MATERIALELOR SI SISTEMELOR COMPOZITE 266 pag., 1995, Ed. Universitatea din Bacău

4. Ciobanu D., Gavrilă L., Fînaru A., Ciobanu R., CHIMIE GENERALĂ: TEHNICI DE LABORATOR 346 pag., 1993, Ed. Universitatea din Bacău
5. Schreiner C., Ciobanu R., Temneanu M., CALITATE, FEZABILITATE SI FIABILITATE, APLICATII 209 pag, 1997, Ed. Universitatea Tehnica Gheorghe Asachi Iasi
6. Schreiner C., Ciobanu R., Temneanu M., FIABILITATE, MENTENANTA SI DIAGNOZA, TEORIE SI EXEMPLE I. 199 pag., 1999, Ed. Universitatea Tehnica Gheorghe Asachi Iasi, Romania

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Ciobanu R., Schreiner, C., Spiridonica A. M., Control statistic si prelucrarea datelor, Lucrari de Laborator si Aplicatii teoretice, 166 pag, 2012, Ed. Universitatea Tehnica Gheorghe Asachi Iasi, <http://rciobanu.wix.com/curs#!books/c65q>

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. Trandabat, Alexandru Florentin, Romeo Cristian Ciobanu, and Oliver Daniel Schreiner. "Carbon Microfibers Coated with 3-Methyl-4-Phenylpyrrole for Possible Uses in Energy Storage." *Coatings* 15.12 (2025): 1420.
2. Trandabat, A.F.; Ciobanu, R.C.; Schreiner, O.D. Active Surfaces in Sensor Technologies Utilizing Ceramic Nanotube-Conducting Polymer Composites Containing Embedded Gold Nanoparticles. *Coatings* **2025**, *15*, 1211. <https://doi.org/10.3390/coatings15101211>
3. Schreiner, O.D.; Schreiner, T.G.; Miron, L.; Ciobanu, R.C. The Receptor Tyrosine Kinase Axl in (Advanced) Gastric Cancer—From Pathophysiology to Therapeutic Impact. *Medicina* **2025**, *61*, 1619. <https://doi.org/10.3390/medicina61091619>
4. Schreiner, T.G.; Menéndez-González, M.; Schreiner, O.D.; Ciobanu, R.C. Intrathecal Therapies for Neurodegenerative Diseases: A Review of Current Approaches and the Urgent Need for Advanced Delivery Systems. *Biomedicines* **2025**, *13*, 2167. <https://doi.org/10.3390/biomedicines13092167>
5. Aradoaei, M.; Caramitu, A.R.; Lungu, M.V.; Ursan, A.G.; Ciobanu, R.C.; Aflori, M.; Parfeni, A. Thermoplastic Recycling of WEEE Carcasses with the Incorporation of Talc, Fly Ash, and Elastomers for Composites with Electromagnetic Interference Shielding Characteristics for Electric Car Components. *Polymers* **2025**, *17*, 2394. <https://doi.org/10.3390/polym17172394>
6. Aradoaei, M.; Ciobanu, R.-C.; Schreiner, C.M.; Grigoras, G.; Livadariu, R.-P. BENEFIT: An Energy Management Platform for Smart and Energy Efficient Buildings. *Energies* **2025**, *18*, 4542. <https://doi.org/10.3390/en18174542>
7. Caramitu, A.R.; Lungu, M.V.; Ciobanu, R.C.; Ion, I.; Lungulescu, E.M.; Sbarcea, G.B.; Marinescu, V.E.; Aradoaei, S.; Aradoaei, M.; Machidon, R. Composites from Recycled HDPE and ZnO Nanopowder with Improved Insulation and Weathering Features for Cable Jacketing Applications. *Polymers* **2025**, *17*, 1987. <https://doi.org/10.3390/polym17141987>
8. Damian, R.F.; Pachiu, C.; Mocanu, A.; Trandabat, A.; Ciobanu, R.C. The Modeling of Electromagnetic Behavior in the High-Frequency Range of Al₂O₃ and TiO₂ Thermoplastic Composites in Support of Developing New

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L.Premii, distincții.

M. Alte realizări semnificative.

Data, 28.02.2026

Prof. dr. ing. Romeo-Cristian Ciobanu

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October 28, 2025

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Lista de lucrări în domeniul de studii universitare de licență Inginerie Electrică

Numele și prenumele: **Damian Cătălin**

A. Teza de doctorat

1. **Cercetări privind tehnicile de măsurare cu procesare numerică de semnal**, Universitatea Tehnică "Gheorghe Asachi" din Iași, Domeniul Inginerie Electrică, conducător prof.dr.ing. Mihai Crețu, anul obținerii titlului: 2009

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

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2. Platformă blockchain pentru asigurarea securității și autenticității informațiilor metrologice, 1.10.2021-15.12.2021, Granturi interne – Idei de Proiect, înalțarea de bază - Finanțarea cercetării științifice universitare, 40.000 RON – director de proiect

3. PrivateSky - Dezvoltare experimentală în parteneriat public privat pentru crearea de platforme cloud autohtone cu caracteristici avansate de protecție a datelor. Programul operațional competitivitate 2014-2020, axa prioritară 1, acțiunea 1.2.3 Tip proiect – Parteneriate pentru transfer de cunoștințe, Contract 13/01.09.2016, SMIS 106611, ID P_40_371 „Proiect co-finanțat din Fondul European de Dezvoltare Regională prin Programul Operațional Competitivitate 2014-2020”

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5. Sistem complex de monitorizare a alunecarilor de teren utilizând traductoare bazate pe noi materiale și tehnologii, PN II Parteneriate, 63/2012, 2012-2016, 5 ani, membru în echipa de cercetare

6. Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetic într-un oraș durabil, PN III ERA NET, 83/2016, 2016-2018, 1 an, membru în echipa de cercetare

7. Extinderea posibilitatilor de masurare continua on-line a parametrilor poluanti din apa si aer pentru un laborator de mediu, CEEX, 110/10.08.2006, 2006-2007, 2 ani, membru în echipa de cercetare

8. Sistem inteligent de irigare de precizie implementabil pe structuri automate cu deplasare circulara sau liniara, CEEX, 51/2006, 2006-2008, 3 ani, membru în echipa de cercetare
9. Remote instrumentation in next-generation grids, CEEX, 132/2007, 2007-2008, 2 ani, membru în echipa de cercetare
10. Dezvoltarea parteneriatelor c/d prin includerea excelentei romanesti, în vederea promovării de proiecte comune în domeniul materialelor avansate nanostructurate destinate ecranelor de protectie la radiatii electromagnetice in domeniul ghz, CEEX, 202/2006, 2006-2008, 3 ani, membru în echipa de cercetare
11. Ecrane pentru constructii speciale bazate pe structuri chiral-fagure, CEEX, 46/2006, 2006-2008, 3 ani, membru în echipa de cercetare
12. Sistem integrat de inspectie video-inteligenta a materialelor textile dezvoltat prin metode virtuale de procesare a imaginii, CEEX, 57/2006, 2006-2008, 3 ani, membru în echipa de cercetare
13. Nanofire de oxizi metalici semiconductori magnetici diluati, Colaborative CEEX, 1/2006, 2007-2008, 2 ani, membru în echipa de cercetare
14. Electrospining de inalta eficienta, Colaborative PN II, 159/2012, 2012-2016, 5 ani, membru în echipa de cercetare
15. Dezvoltarea parteneriatelor C/D in vederea promovarii unor proiecte europene in domeniul sistemelor distribuite de monitorizare a mediului, CEEX, 201/2006, 2006-2008, 3 ani, membru în echipa de cercetare
16. Fotodetectori bazati pe nanofire multisegment, Colaborative PN II, 11-060/2007, 2008-2010, 3 ani, membru în echipa de cercetare
17. Senzori bazati pe elemente de detectie nanometrice pentru aplicatii în nano-medicina, Colaborative PN II, 12-109/2008, 2009-2011, 3 ani, membru în echipa de cercetare
18. Microsenzori acustici pe baza de nanofire magnetostrictive pentru aplicatii medicale, Colaborative PN II, 14-114/2008, 2011-2011, 1 an, membru în echipa de cercetare
19. Microsenzori magnetici implantabili pentru aplicații medicale (MEDISENS), Colaborative PN II, 12-110/2008, 2011-2011, 1 an, membru în echipa de cercetare
20. Microtraductoare cu elemente sensibile bazate pe nanofire magnetice, Colaborative CEEX, 75-157/2008, 2009-2011, 3 ani, membru în echipa de cercetare
21. Nanofire multistrat cu structura de tip valva de spin. Proprietati de magnetorezistenta gigant., CNCSIS, 21/2005, 2006-2007, 2 ani, membru în echipa de cercetare
22. Sistem automat de iradiere a filmelor polimerice cu un numar prestabilit de ioni, CNCSIS, 164/2006, 80/2007, 2006-2007, 2 ani, membru în echipa de cercetare

L. Premii, distincții.

M. Alte realizări semnificative.

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Conf. dr. ing. inf. Catalin Damian

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Numele și prenumele: **David Valeriu**

A. Teza de doctorat.

1. “Cercetări legate de măsurarea câmpurilor electromagnetice perturbatoare (EMI)”, 1998, Specializarea “Măsurile electrice”, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: prof. dr. ing. Mihai ANTONIU

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Editors: Camelia Petrescu and **Valeriu David**, Modeling and Simulation in Engineering, 3rd Edition, MDPI, Basel, Elvetia, 2025, ISBN 978-3-7258-5233-8 (Hardback); ISBN 978-3-7258-5234-5 (PDF), <https://www.mdpi.com/books/reprint/11559-modeling-and-simulation-in-engineering-3rd-edition>
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 13. Proiect Cercetare de excelență CEEX CNMP-INFOSOC, CEEX 57/2006, Coordonator UTI, Titlu: Sistem integrat de inspecție video-inteligentă a materialelor textile dezvoltat prin metode virtuale de procesare a imaginii, Valoare: 1 040 000 RON (TUI 499.000 RON), 2006 – 2008, **David V.** (membru echipă).
 14. Tehnici neinvazive cu microunde pentru detecția timpurie a cancerului de sân, Proiect CEEX modulul 1 nr. 20/2005, Valoare: TUI:150.000 RON, 2005 – 2008, **David V.** (membru echipă).
 15. Susținerea integrării cercetării românești în domeniul poluării electromagnetice în rețele, programe și parteneriate europene de profil, Proiect CEEX modulul 3-12335, nr. 226/01.08. 2006, Valoare: 200.000 RON, 2006 – 2008, **David V.** (membru echipă).

16. EPRM-NET, Proiect CEEEX – MODUL 3, Contract nr. 202/ 2006, Valoare: 200.000 RON (TUI 150 000 RON), 2006 – 2007, **David V.** (director proiect 2006-2007).
17. Supravegherea înconjurătorului electromagnetic, Grant tip A – CNCSIS, Cod CNCSIS A 801, Valoare: 51.239 RON, 2003 – 2005, **David V.** (director proiect).
18. Grant PNCD CERES 2001-2003, Titlu: Cercetări multidisciplinare în domeniul tehnologiilor informaționale bazate pe algoritmi genetici, rețele neuronale și sisteme fuzzy pentru inginerie și management, Valoare: 80. 000. 000 lei, 2001 – 2003, **David V.** (membru echipă).
19. Grant CNFIS 13109-45224/2000 cu Ministerul Educației Naționale, Titlu: Sisteme numerice pentru achiziția și prelucrarea semnalelor, Valoare: 5000 USD (91 375 000 lei), 2000 – 2001, **David V.** (membru echipă).
20. Grant ANSTI 6177/2000, Titlu: Cercetări privind implementarea tehnicilor fuzzy în arhitectura senzorilor inteligenți, Valoare: 160 000 000 lei, 2000 – 2003, **David V.** (membru echipă).

L. Premii, distincții.

1. Coautor la lucrarea "Măsurări electronice" (volumul 1, 2, 3), distinsă cu premiul "Traian Vuia" al Academiei Române în anul 2001.
2. Diplomă de Onoare și Medalie Jubiliară cu prilejul sărbătoririi a 120 de Ani de Învățăământ Superior Medical leșean, conferite de Universitatea de Medicină și Farmacie, "Gr. T. Popa", în anul 1999.
3. Titlul de „Cetățean de Onoare al comunei Crăcăoani”, Primăria comunei Crăcăoani, jud. Neamț, 2008.
4. Premiul Inventatorului Senior, INVENTICA 2020, Iasi, Romania

M. Alte realizări semnificative.

Data, 10.12.2025

Prof. em. dr. ing. Valeriu David

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Asist. univ. drd. Doboș Ioan-Marian

A. Teza de doctorat (*în curs..*)

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B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

1. Prim-autor: I. -M. Dobos, A. Munteanu, B. Virlan, I. Nacu, L. Livadaru and A. Simion, A Study on a Linear Actuator for the Electromagnetic Aircraft Launch System, 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 676-680, doi: 10.1109/EPEi63510.2024.10758090, (IEEE Xplore).

2. Autor secundar: B. Virlan, A. Munteanu, I. -M. Dobos, I. Nacu, L. Livadaru and A. Simion, A Study Regarding the Rotor Configuration of a High-power Density PMSM for Formula Student Race Car, 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 291-296, doi: 10.1109/EPEi63510.2024.10758116, (IEEE Xplore).

J. Invenții

K. Contracte de cercetare

L. Premii, distincții

M. Alte realizări semnificative

Data, 10.03.2026

Asist. univ. drd. Doboș Ioan-Marian

Lista de lucrări în domeniul de studii universitare de licență Inginerie Electrică

Numele și prenumele: Dudeanu Mihaela Iuliana

A. Teza de doctorat.

« La poétique des éléments fondamentaux dans l'œuvre de J. M. G. Le Clézio », 2018, Universitatea "Alexandru Ioan Cuza", Iași, Domeniul Filologie, Conducător : Prof. Univ. Dr. Alexandru Călinescu

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

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D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

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E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

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F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. Dudeanu Mihaela Iuliana, *Najat ou la survie : une lutte perpétuelle*, Ed. Politehnia, Iași, Les Cahiers Linguatek, v. 17-18 (9), 2025, p. 143-148, ISSN : 2559-7752, <https://www.cceol.com/search/article-detail?id=1400285>

2. Dudeanu, Mihaela Iuliana, *J.-M. G. Le Clézio et ses personnages atteints de folie*. Les Cahiers Linguatek, v. 15-16 (8), 2024, pp 241-250, ISSN : 2559-7752.

3. Dudeanu, Mihaela Iuliana, *J.-M. G. Le Clézio et ses personnages solitaires*. Les Cahiers Linguatek, v. 13-14 (7), 2023, pp 84-100, ISSN : 2559-7752. <https://www.cceol.com/search/article-detail?id=1197512>

4. Dudeanu, Mihaela Iuliana, *Ideologie, Redewendungen, Sprachformen und Lebensmodus in den kommunistischen Jahren Rumäniens*. Buletinul Institutului Politehnic din Iași, v. 67(71), Secția Științe Socio-Umane, 2021, pp 53-70, ISSN: 2501-8760. <https://dppd.tuiasi.ro/wp-content/uploads/2022/01/Vol.-SSU-1-2-din-2021.pdf>

5. Dudeanu, Mihaela Iuliana, *Mémoire de la guerre dans l'œuvre de Jean-Marie Gustave Le Clézio*. Les Cahiers Linguatek, v. 9-10 (5), 2021, pp 129-140, ISSN : 2559-7752. <https://www.cceol.com/search/journal-detail?id=2476>

G. Lucrări științifice publicate în reviste din străinătate.

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H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

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I. Lucrări științifice publicate în volumele conferințelor.

1. Dudeanu, Mihaela Iuliana, *Le rôle du français sous la plume de J.-M. G. Le Clézio*, „Congresul European al Federației Internaționale a Profesorilor de Franceză, ed. a 4-a”, București, pp 384-398
2. Dudeanu, Mihaela Iuliana, *La "géographie" des textes lecléziens*, Autour et à travers, Ed. Politehnicum, Iași, pp 155-164, 2022
3. Marari, Mihaela Iuliana, *Elementary existence and fundamental elements in Désert by J. M. G. Le Clézio*, "Literature, Discourses and the power of multicultural dialogue 5", Târgu-Mureș, pp 643-650, 2017
4. Marari, Mihaela Iuliana, *Les Roumains et Le Clézio ou Le Clézio et les Roumains*, « Francophonie et curiosité(s) », Iasi, pp 247-259, 2016
5. Marari, Mihaela Iuliana, *Aspecte personale și rolul lor în evoluția operei lecléziene*, „Școala internațională de metodologie în Științele socio-umane”, Chișinău, pp 314-326, 2015
6. Marari, Mihaela Iuliana, *L'écriture leclézienne : entre autobiographique et biographique*, „Univers des arts — univers de la famille : interférences et divergences”, Cluj Napoca, pp 139-151, 2014
7. Marari, Mihaela Iuliana, *La création leclézienne : carrefour de plusieurs milieux culturels et linguistiques*, « Le français de la Francophonie : altérité intime, identité plurielle », Iasi, 2014
8. Marari, Mihaela Iuliana, *Water: Fundamental Element of Le Clézio's Poetics. Occurrences and Significations of the Aquatic Element in Desert and Onitsha*, "Literature, Discourse and Multicultural Dialogue 2", Târgu-Mureș, 4pp 1063-1067, 2014
9. Marari, Mihaela Iuliana, *The Leclézien Character: Medium of Openness Towards Otherness / Alterity*, "Globalization, Intercultural dialogue and national identity", Târgu-Mureș, pp 879-885, 2014
10. Marari, Mihaela Iuliana, *Connaissance de l'Autre à travers une meilleure connaissance de soi*, « Le recyclage culturel entre parasitisme, atrophie de l'imaginaire et Invention seconde », Iasi, pp 104-113, 2013
11. Marari, Mihaela Iuliana, *Expériences identitaires dans Désert et Gens des nuages de J.M.G. Le Clézio*, « Espaces et quête identitaire dans le roman français actuel », Cluj Napoca, pp 104-116, 2012
12. Marari, Mihaela Iuliana, *L'univers du langage dans Maria Chapdelaine de Louis Hémon*, « La Francophonie (...) problématique(s) », Iași, pp 229-238, 2012

J. Invenții.

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K. Contracte de cercetare.

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L. Premii, distincții.

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M. Alte realizări semnificative.

Traduceri

1. Vincent Jauvert, *Les Intouchables d'Etat*, Ed. Cartea Românească, Iași, 2021
2. William Genieys, *Sociologie politique des élites*, Ed. Institutul European, Iași, 2013

Data,

Nume, semnătura

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Filip Tudor-Alexandru

A. Teza de doctorat

A.1. *Studiul influenței parametrilor geometrici ai electrozilor electrochimici serigrafiați asupra răspunsului electrochimic*, 2025, Domeniul **Inginerie electrică**, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător de doctorat: Prof.Dr.Ing. Marius Andrei Olariu.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

F.1. Tăchiță Vlad-Bubulac, Diana Serbezeanu, Elena Perju, Dana Mihaela Suflet, Daniela Rusu, Gabriela Lisa, **Tudor-Alexandru Filip**, Marius-Andrei Olariu, "Multifaceted Nanocomposites Combining Phosphorylated PVA, MXene, and Cholesteric Liquid Crystal: Design and Application Insights", *Nanomaterials*, 1251, 2025.

F.2. Ina Turcan, **Tudor Alexandru Filip**, Tăchiță Vlad-Bubulac, Daniela Rusu and Marius Andrei Olariu, "Dielectrophoretic direct assembling of Mxene flakes at the level of screen-printed interdigitated microelectrodes and their evaluation in gas sensing applications", *2D Materials*, 2024.

F.3. Marius Andrei Olariu, Tăchiță Vlad-Bubulac, **Tudor Alexandru Filip** and Ina Turcan, "Dielectric anisotropy in selfassembling MXene-based lyotropic nematic compounds", *J. Phys. D: Appl. Phys.*, 2024.

F.4. **Tudor-Alexandru Filip**, Mădălina-Petronela Simion, Ina Turcan, Marius-Andrei Olariu, „An Overview and Current Challenges in Respect to Screen-Printed Electrochemical Electrodes Employability as Disposable Biosensors”, *Bulletin of the Polytechnic Institute of Iași. Electrical Engineering, Power Engineering, Electronics Section*, vol. 70, no. 1, Gheorghe Asachi Technical University Iasi, pp. 35-60, 2024.

F.5. Marius Andrei Olariu, **Tudor Alexandru Filip**, Catalina Anisoara Peptu and Ina Turcan, "Screen-printed interdigitated microelectrodes employment in dielectrophoretic manipulation of MWCNTs", *Microchimica Acta*, 2023.

F.6. Olariu MA, Herrero R, Astanei DG, Jofré L, Morentin J, **Filip TA**, Burlica R. Improving Printability of Polytetrafluoroethylene(PTFE) with the Help of Plasma Pre-Treatment. *Polymers*. 3348, 2023.

F.7. M. A. Olariu , C. Tucureanu, **T. A. Filip**, I. Caras, A. Salageanu, V. Vasile, M. Avram, B. Tincu, I. Turcan, „ HT-29 Colon Cancer Cell Electromanipulation and Assessment Based on Their Electrical Properties”, *Micromachines* 2022.

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

I. 1. V. -A. Scarlatache, M. A. Olariu, F. Scarlatache, S. Aradoaei, **T. A. Filip** and M. P. Simion, "Modeling and Simulation of Regenerative Braking Systems Using MATLAB System Composer and Simulink," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, pp. 1-6, 2025.

I.2. M. -P. Simion, I. Turcan, **T. A. Filip** and M. A. Olariu, "Monitoring Yeast Cells Behaviors by Electrical Impedance Spectroscopy," 2024 E-Health and Bioengineering Conference (EHB), IASI, Romania, pp. 1-4, 2024.

I.3. **T. A. Filip**, I. Turcan, C. -C. Simota, D. G. Astanei and M. A. Olariu, "Fabrication and Preliminary Evaluation of Flexible Screen-Printed Resistive Voltage Divider," 2023 International Conference on Engineering and Emerging Technologies (ICEET), Istanbul, Turkiye, pp. 1-4, 2023.

I.4. V. -A. Scarlatache, S. Aradoaei, M. A. Olariu, F. Scarlatache, **T. A. Filip** and R. Simionescu, "Electric Vehicle Architecture Modeling Based on MATLAB and SysML for Discrete and Continuous Simulation," 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Romania, pp. 1-5, 2023.

I.5. **T. A. Filip**, I. Turcan, V. A. Scarlatache, A. Dragomir, M. A. Olariu, „Electric Field Numerical Modeling and Simulation of V-Shaped Interdigitated Microelectrodes”, 2022 International Conference on Engineering and Emerging Technologies (ICEET), 2022.

I.6. V. A. Scarlatache, S. Aradoaei, M. A. Olariu, **T. A. Filip**, F. Scarlatache, G. Gheorghian, „Continuous Improvement in Education Based on Deming Model in Worldwide Context”, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), 2022.

I.7. V. A. Scarlatache, M. A. Olariu, S. Aradoaei and **T.A. Filip**, "An Overview on Nonvolatile Memories Used in Automotive Industry," 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), pp. 517-520, 2021.

J. Invenții

K. Contracte de cercetare

K. 1. Membru în echipa de cercetare - *Screen-printed chemiresistor based on dielectrophoretically trapped MXenes for volatile organic compounds (VOC) detection*, PN-III-P1-1.1-TE-2021-0751, Buget 313,200 lei, 2022-2024.

K.2. Membru în echipa de cercetare - *Evaluarea capacității de eletromanipulare dielectroforetica și caracterizare electrică a celulelor biologice cu ajutorul microelectrozilor interdigitati imprimați integral (uBioDEP)*, Buget 60,000 lei, 2022-2023.

K.3. Membru în echipa de cercetare - *Adaptarea proprietatilor electrice ale compozitelor polimerice functionale pe baza alinierii dielectroforetice de MXene (Diel-MX)*, PN-IV-P2-2.1-TE-2023-0978, Buget 500,000 lei, 2025-2026.

L. Premii, distincții

L. 1. Articol premiat – UEFISCDI 2023 - M. A. Olariu , C. Tucureanu, **T. A. Filip**, I. Caras, A. Salageanu, V. Vasile, M. Avram, B. Tincu, I. Turcan, „ HT-29 Colon Cancer Cell Electromanipulation and Assessment Based on Their Electrical Properties”, Micromachines 2022, 11,13, doi: 10.3390/mi13111833.

M. Alte realizări semnificative

Data,
13.03.2026

Dr.Ing. Filip Tудо-Alexandru

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

FOȘALĂU CRISTIAN

A. Teza de doctorat

Contribuții la îmbunătățirea performanțelor traductoarelor pentru măsurarea unor mărimi geometrice, Universitatea Tehnică "Gh.Asachi" din Iași, 1998, 171 pagini.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C.Foșalău, C.Zet, capitolul „*Wireless sensor network for landslide early warning and monitoring*” in „*Sensors in the Age of the Internet of Things: Technologies and applications*”, The Institution of Engineering and Technology - IET Publishing House, London, 2019, pp 201-238. ISBN 978-1785616341, e-ISBN 978-1785616358.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS)

1. Foșalău, Introducere în instrumentația virtuală, Ed. Cermi, Iași, 2010, 161 pg., ISBN 978-973-661-318-8.
2. C. Foșalău, Proiectarea și simularea circuitelor electronice de măsurare, Ed. Politehniun, Iași, 2009, 205 pg. ISBN 978-973-621-208-6
3. C. Foșalău, M.Temneanu, C.Zet, E.Vremeră, Noi materiale în construcția de senzori,, Casa de editură Venus, Iași, 2006, 171 pagini ISBN: 973-756-020-5
4. C. Donciu, C. Foșalău, M. Temneanu, Tehnici de teletransmisie a datelor în învățământul tehnic la distanță, Casa de editură Venus, Iași, 2005, 158 pagini
5. L. Niță, C.Sărmășanu, C.Foșalău, Sisteme informatice pentru gestionarea consumului de energie electrică, Casa de editură Venus, Iași, 2003, 157 pagini.
6. C.Foșalău, M. Crețu, Senzori și traductoare cu fire magnetice amorfe, Editura TEHNICA-INFO Chișinău, 2002, 157 pagini.
7. C.Foșalău, Fire magnetice amorfe cu magnetostricțiune ridicată. Proprietăți și efecte, capitol în Tendințe novatoare în instrumentație și măsurări electrice, coordonator M. Crețu, Editura Sedcom Libris Iași, 2001 (32 pagini).
8. O. Postolache, M. Crețu, C. Foșalău, Tratarea numerică a semnalelor. Teorie și aplicații, Editura Gh.Asachi, Iași, 2000, 233 pagini.
9. L.Niță, M.Crețu, C.Foșalău, O.Postolache, Interfațarea și programarea calculatoarelor pentru realizarea sistemelor informatice de măsurare, Editura Matrix Rom, București, 2000, 206 pagini
10. C.Foșalău, O.Postolache, Proiectarea asistată de calculator a sistemelor de măsură, Editura Gh.Asachi, Iași, 1999, 191 pagini.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

1. C. Foşalău, Prelucrarea numerică a semnalelor edu.tuiasi.ro
2. C. Foşalău, Instrumentație de măsură a parametrilor de mediu, edu.tuiasi.ro
3. C. Foşalău, Instrumentație virtuală, edu.tuiasi.ro

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. Fosalau, C. A New Device for Measuring Trunk Diameter Variations Using Magnetic Amorphous Wires. Sensors, 25(14), 4449, 2025. <https://doi.org/10.3390/s25144449>
2. C. Fosalau, D.Cornei, C.Zet, Algorithm for compensation of external influences upon metal oxide gas sensors using the datasheet characteristics Metrology and Measurement Systems, Vol.31, no. 4, 2024.
3. C. Zet, G.Dumitriu, C.Fosalau, G.C. Sarbu, Automated calibration and DCC generation system with storage in private permissioned Blockchain network, Acta IMEKO Vol. 12, No. 1, 2023.
4. C.Damian, D.Petrisor, C.Fosalau, C.Zet, Landslide surveillance using a wireless measurement grid , Environmental Engineering and Management Journal, vol. 17, no. 1, 2018, pp. 209-216 IF=1.334.
5. C. Fosalau, C.Zet, D.Petrisor, Multiaxis inclinometer for in depth measurement of landslide movements, Sensor Review, vol. 35, no. 3, pp. 296-302 (2015) (ISI Web of Science, IF 2015 = 0,75)
6. C. Fosalau, C. Damian, C. Zet, A high performance strain gage based on the stressimpedance effect in magnetic amorphous wires, Sensors and Actuators A 191 (2013) 105– 110 Factor impact: 1,943
7. C. Zet, C. Fosalau, Magnetic nanowire based sensors, Digest Journal of Nanomaterials and Biostructures, Vol. 7, No. 1, January - March 2012, p. 299 – 306 (revista ISI), IF (2011) = 2,079
8. C. Damian, C. Foşalău, Sources of indoor noise and options to minimize adverse human health effects, Environmental Engineering and Management Journal, March 2011, vol.10, nr.1, p. 393-400 ISSN 1582-9596 (revista ISI)
9. C. Foşalău, C.Damian, C.Zet, Pspice Model for Simulating the Giant Magnetoimpedance Effect in Magnetic Amorphous Wires, Metrology and Measurement Systems, Vol. XVI (2009), no.1, pp. 171-182 (Revistă ISI) IF=0,609.
10. E.Vremera, C.Fosalau, L.Brunetti, Instrumentation set-up for characterisation of the sensors based on amorphous wires, Measurement, Elsevier, Vol. 41 (2008), pp. 327 – 333. (Revistă ISI) IF=1,526
11. C. Foşalău, M. Crețu, O. Postolache, A Circular Displacement Sensor Using Magnetostrictive Amorphous Wires, IEEE Transactions on Magnetics, nr. 3, vol. 36, May 2000, 557-560. (Revistă ISI) IF = 1,213.
12. D.Cornei, C.Fosalau, L.Cornei, A study regarding power consumption of an iot node for image retrieval and its optimization, Buletinul Institutului Politehnic Iași, secția Electrotehnică, Energetică, Electronică, vol. 69(73), nr. 1, 2023, pp.61-84.
13. Anamaria Hariton, C. Zet, C. Foşalău, "Distortion Analysis for Programmable Analog Signals Generated Using FPGA", Bulletin of the Polytechnic Institute of Iași.

- Electrical Engineering, Power Engineering, Electronics Section, vol.68, no.1, pp.49, 2022.
14. I.-A. Iftode and C.Fosalau, Review on microcontroller platforms and their applicability in iot embedded systems, Buletinul Institutului Politehnic din Iasi, Secția Electrotehnica, Energetica, Electronica, publicat de Universitatea Tehnica „Gheorghe Asachi” din Iasi, Nr.4, Vol. 66(70), 2020, pp. 9-20.
 15. Lacramioara Iftode, C. Fosalau, Analysis of data transmitted between the server and the client through different types of communication, Buletinul Institutului Politehnic din Iasi, Secția Electrotehnica, Energetica, Electronica, publicat de Universitatea Tehnica „Gheorghe Asachi” din Iasi, Tomul LIX (LXIII), Fasc. 1, 2013, pp. 105 - 118, ISSN 1223-8139 (IndexCopernicus, Ulrich's)
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 48. C.Fosalau and C.Zet, An IoT Approach as a Virtual Laboratory for Practicing Electrical Engineering Disciplines, 2nd International Symposium on Sensing and Instrumentation in IoT Era, Lisbon, 29-30 August 2019. (IEEEExplore).
 49. C.Zet, M.Branzila, C.Fosalau, Sensor network for indoor home plants, 2nd International Symposium on Sensing and Instrumentation in IoT Era, Lisbon, 29-30 August 2019. (IEEEExplore).
 50. I. Hogas, C.Fosalau, C.Zet, Behaviour of an Electrospun Sputtered Strain Gage Working in Various Supplying Conditions, 22nd IMEKO TC4 International Symposium, Iasi, Romania, Sept. 14-15, 2017. (Scopus).
 51. C.Fosalau, C. Zet, D. Petrisor, A new landslide inclinometer using highly sensitive gauges, Proceedings of the 8th International Conference on Sensing Technology ICST 2014, 2-4 September, 2014, Liverpool, UK, pp. 220-224, publicat în International Journal on Smart Sensing and Intelligent Systems ISSN 1178-5680, indexat în SCOPUS, Engineering Village, INSPEC, EBSCO.
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 71. D. Petrișor, C. Foșalău, C. Zet, C. Damian, Measurement of Landslide Displacement and Orientation using Strain Gauges Based on Amorphous Magnetic Microwires,

- 19th Symposium IMEKO TC 4 Symposium and 17th IWADC Workshop, Barcelona, July 18-19, 2013, pp. 655-660, ISBN-13: 978-84-616-5438-3 (indexat SCOPUS).
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 73. C. Damian, C. Fosalau, E. Lunca, Virtual Instrumentation for Measuring Amorphous Magnetic Wires Strain Gauges Characteristics, REV2012 - Remote Engineering & Virtual Instrumentation, Bilbao Conference, Spain, 4 – 6 July 2012, 195-199, IEEE Catalog Number: CFP1249T-USB, ISBN: 978-1-4673-2541-7 (indexat IEEEExplore, SCOPUS).
 74. C. Foşalău, C. Zet, An automatic compensation of external disturbances for a high sensitive magnetic sensor, 17th Symposium IMEKO TC 4, 8-10 Sept. 2010, Kosice, Slovakia, Paper ID 30 ISBN 978-80-553-0424-3 (CD-ROM) (SCOPUS)
 75. C. Zet, C. Foşalău, Improved digital phase measurement, 17th Symposium IMEKO TC 4, 8-10 Sept. 2010, Kosice, Slovakia, Paper ID 85, ISBN 978-80-553-0424-3 (CD-ROM) (SCOPUS)

J. Invenții

1. C. Harja, C. Foşalău, Convertor tensiune-frecvență cu sensibilitate ridicată și neliniaritate controlată, Brevet nr. Ro 113906 B1/1998.
2. Craus, M.L.; Lozovan, M.; Dobra, V.; Luca, D.; Gheorghiu Diana; Fosalau, C.; Mita, Carmen; Cornei, Nicoleta Senzor magnetorezistiv. Brevet de invenție nr. RO125633-A2; RO125633-B1
3. V. David, C. Foşalău, M. Brânzilă, Metodă de extragere din zgomot a semnalelor cvasiperiodice, Brevet de invenție nr. RO131475B1 din 30.03.2022
4. C. Foşalău, V.David, Traductor de unghi cu fir magnetic amorf și ieșire în frecvență, Brevet de invenție nr. RO131517B1 din 30.06.2023
5. C.Foşalău, D.Cornei, Dendrometru cu fire magnetice amorfe, cerere brevet de invenție nr. A00192/21.04.2023
6. C.Foşalău, C.Zet, TRADUCTOR PENTRU CONVERSIA MIȘCĂRILOR DATORATE RESPIRAȚIEI ÎN SEMNAL ELECTRIC, Cerere A00068/11.02.2022
7. C. Fosalau, C.Zet, D.Petrisor, Traductor de deformare de înaltă sensibilitate, Cerere nr. A00110/2015
8. C. Zet, C. Fosalau, D. Petrisor, SENZOR PENTRU MĂSURAREA PRESIUNII HIDROSTATICE ÎN PORI, cerere nr. 00127/19.02.2016

K. Contracte de cercetare/granturi

1. Proiect PN2 Parteneriate nr. 37/2014 (responsabil științific din partea UTI)
 Titlu: Retea inteligenta de microsenzori pentru masurarea neinvaziva a debitelor (SmartFlow)
 Autoritate contractantă : UEFISCDI
 Contractor principal : Institutul Național de Cercetare-Dezvoltare pentru Fizică Tehnică Iași
 Perioada de derulare : 10.2014 – 12.2016
 Valoare contractată: 125.000 RON

2. Proiect PN2 Parteneriate nr. 12110/01.10.2008 (responsabil științific din partea UTI)
Titlu: Microsenzori magnetici implantabili pentru aplicații medicale (MEDISENS)
Autoritate contractantă : CNMP București
Contractor principal : Institutul Național de Cercetare-Dezvoltare pentru Fizică Tehnică Iași
Perioada de derulare : 10.2008 – 09.2011
Valoare contractată: 250.000 RON
3. Proiect PN2 Parteneriate nr. 82096/01.10.2008 (responsabil științific din partea UTI)
Titlu: Sistem pe baza de microfibre magnetice pentru neutralizarea activării de la distanță a explozivilor prin intermediul telefoanelor mobile (NADEX)
Autoritate contractantă : CNMP București
Contractor principal : Institutul Național de Cercetare-Dezvoltare pentru Fizică Tehnică Iași
Perioada de derulare : 10.2008 – 09.2011
Valoare contractată: 200.000 RON
4. Proiect PN2 Parteneriate nr. 12114/01.10.2008 (responsabil științific din partea UTI)
Titlu: Microsenzori acustici pe bază de nanofibre magnetostrictive pentru aplicații medicale (SANAM)
Autoritate contractantă : CNMP București
Contractor principal : Institutul Național de Cercetare-Dezvoltare pentru Fizică Tehnică Iași
Perioada de derulare : 10.2008 – 09.2011
Valoare contractată: 225.000 RON
5. Proiect PN2 Parteneriate nr. 12109/01.10.2008 (responsabil științific din partea UTI)
Titlu: Senzori bazati pe elemente de detectie nanometrice pentru aplicatii în nano-medicina (SENAN)
Autoritate contractantă : CNMP București
Contractor principal : Institutul Național de Cercetare-Dezvoltare pentru Fizică Tehnică Iași
Perioada de derulare : 10.2008 – 09.2011
Valoare contractată: 200.000 RON
6. Proiect CEEEX modulul 4 nr. 110/10.08.2006 (director de proiect)
Titlu: Extinderea posibilităților de măsurare continuă on-line a parametrilor poluanți din apă și aer pentru un laborator de mediu
Autoritate contractantă : RENAR București
Perioada de derulare : 08.2006 – 01.2008
Valoare contractată: 770.000 RON
7. Proiect CEEEX modulul 1 nr. 06-11-58/2006 (responsabil științific din partea UTI)
Titlu: Procese fizice în fibre magnetice amorfe utilizate în funcționarea senzorilor magnetici

Autoritate contractantă : Program CERES

Subcontract nr. 3660P/24.07.2006

Contractor principal : Institutul Național de Cercetare-Dezvoltare pentru Fizică Tehnică Iași

Responsabil subcontract : Prof.dr.ing. C. Foșalău

Perioada : 08.2006 – 09.2008

Valoare UTI : 200.000 RON

8. Proiect nr. 3853/12.04.2005, grant tip A CNCSIS cod CNCSIS 453 (director de proiect)
Titlu: Noi materiale în construcția de dispozitive de măsură
Perioada de derulare: 06.2005 – 10.2007
Valoare totală contractată: 42.000 RON
9. Proiect PNCDI nr. 258(408)/2004 (director de proiect)
Titlu: Microtraductoare cu elemente sensibile din materiale magnetice amorfă
Autoritate contractantă: Program MATNANTECH
Perioada de derulare: 10.2004 – 07.2006
Valoare contractată: 1,681 miliarde lei
10. Proiect PNCDI nr. 132/23.08.2004 (director de proiect)
Titlu: Sistem informatic virtual pentru educație interactivă la distanță în domeniul ingineriei electrice
Autoritate contractantă: Program INFOSOC
Perioada de derulare: 08.2004 – 04.2006
Valoare contractată: 1,95 miliarde lei
11. Contract nr. 35259/2001, grant tip A CNCSIS cod CNCSIS 237 (director de proiect)
Titlu: Utilizarea ariilor logice programabile la realizarea de microsisteme de măsură dedicate
Perioada de derulare: 09.2001 – 10.2003
Valoare totală contractată: 146.000.000 lei
12. Contract nr. 6177/2000, grant tip A ANSTI, COD 178 (director de proiect)
Titlu: Realizarea de microcontrolere dedicate pentru instrumentație utilizând arii logice programabile
Perioada de derulare: 06.2000 – 11.2001
Valoare totală contractată: 46.000.000 lei

L. Premii, distincții

1. Medalie aur Euroinvent 2024, Iași
2. Medalie aur Euroinvent 2022, Iași
3. Medalie aur Euroinvent 2017, Iași
4. Medalie argint Euroinvent 2017, Iași
5. Medalie aur Inventica 2017, iunie 2017, Iași
6. Medalie aur Inventica 2017, iunie 2017, Iași

7. Medalie aur Salonul Inovării și Cercetării, Galati, oct. 2017
8. Medalie bronz INFOINVENT Chisinau, nov. 2017
9. Premiu Best Technical Paper, Simpozionul internațional ICST 2014, Liverpool, 2-4 septembrie 2014
10. Premiu Best Poster Award, IMEKO-TC4 Symposium, Budapest, 7-9 septembrie 2016.
11. Premiu Best Paper Award Simpozionul internațional ISSI 2018, Shanghai, 6-7 sept. 2018
12. Premiu „Cercetare de excelență” pentru cea mai bună echipă de cercetare acordat de Universitatea Tehnică „Gheorghe Asachi” din Iași pentru echipa: Marinel Temneanu, Cristian Foșalău, Codrin Donciu, Cristian Zet, Octombrie 2013.

M. Alte realizări semnificative

Data
10.10.2025

Semnătura

Lista de lucrări în domeniul de studii universitare de licență Inginerie Electrică

Asist. dr. ing. Gabor Georgel:

A. Teza de doctorat.

1. "Contribuții privind îmbunătățirea comunicațiilor industriale între diferite echipamente ale unui sistem electric", Universitatea Tehnică "Gheorghe Asachi" din Iasi, domeniul Inginerie Electrică, conducător de doctorat Prof. Dr. Ing. Gheorghe Livinț (2024).

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

-

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

- Dosoftei C.C., **Gabor G.** (2024), Îndrumar de laborator - Sisteme distribuite de achiziție, monitorizare și conducere, 270 pg, ISBN 978-973-621-546-9, Editura Universității Tehnice "Gheorghe Asachi" din Iași 2024

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

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F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. C. Nițucă, A. Dragomir, **G. Gabor**, G. Chiriac, *Simulated thermal response of a battery pack used by electric two-wheelers*, Thermal Science, International Scientific Journal, <https://doi.org/10.2298/TSCI250724194N>, FI (2024) 1,1, Q4.
2. Nițucă, C., CHIRIAC, G., **Gabor, G.**, Nucă, I., Cazac, V., & Burduniuc, M. (2021). *GEOMETRY DESIGN AND ANALYSIS OF AN ELECTRIC BUS FOR THE INTERIOR THERMAL MODELLING*. Journal of Energy Technology, 14(2), 47-55, indexată database INSPEC
3. **Georgel Gabor**, Adrian Traian Plesca, "The PLC control of electrical system consisting in electromagnetically sliding brake and coupling", Journal of Energy Technology, JET Volume 8 (2015), p.p. 1 - 10 2018, indexată database INSPEC.
4. Botoc Dorin, Jurij Avsec, Adrian Traian Plesca, **Georgel Gabor**, Rusu Ionut, "THE PROPERTIES OF THE MATERIAL GADOLINIUM AND THE WORKING AGENT USED IN THE INSTALLATION OF MAGNETIC REFRIGERATION DEVICES", Vol. 13 No. 2 (2020): September 2020
5. **Georgel Gabor**, Gheorghe Livinț, "Solution for pumps control in irrigations system using S7-1200 PLC", Conferința Națională de Acționări Electrice, Timișoara, 2022, indexată NNALS of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XX [2022] | Fascicule 3 [August], indexată Index Copernicus

G. Lucrări științifice publicate în reviste din străinătate.

- Nițucă, C., Chiriac, G., **Gabor, G.**, Nucă, I., Cazac, V., Burduniuc, M. (2021). *Geometry design and analysis of an electric bus for the interior thermal modelling*. Journal of Energy Technology, 14(2), 47-55, (Indexat ProQuest)

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

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I. Lucrări științifice publicate în volumele conferințelor.

1. **Georgel Gabor**, Gheorghe Livinț, ”*Application of S7-1200 PLC for Temperature Monitoring of a Railway Separator*”, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, indexată IEEEExplore.
2. **Georgel Gabor**, Gheorghe Livinț, ”*Solution for Monitoring and Remote Control Based on Modbus RTU and S7-1200 PLC*”, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, indexată IEEEExplore.
3. G. CHIRIAC, D. -D. Lucache, C. Nițucă and G. Gabor, ”*Aspects Regarding the Heating of Electric Buses*,” 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 481-486, doi: 10.1109/SIELMEN53755.2021.9600435, indexată IEEE explore.
4. Florinel Lupoiu, Adrian-Traian Plesca, **Georgel Gabor**, Gabriel Chiriac, ”*A New Solution of Electronic Device Proposed for Cereals, Vegetables and Fruits Storage*”, International Conference and Exposition on Electrical and Power Engineering (EPE), 2020, indexată IEEEExplore.
5. Gabriel Mocanu, Adrian-Traian Plesca ,**Georgel Gabor**, Maricel Adam, Mihai Andrusca, ”*Temperature Monitoring of the Heating Resistors of the Railway Switches from Romanian Railway System*”, International Conference and Exposition on Electrical and Power Engineering (EPE), 2020, indexată IEEEExplore.
6. Petru Valentin Roșu, Adrian-Traian Plesca ,**Georgel Gabor**, Gabriel Chiriac, ”*Optimizing the Operation of Photovoltaic Panel Systems*”, International Conference and Exposition on Electrical and Power Engineering (EPE), 2020, , indexată IEEEExplore.
7. Dorin-Dumitru Lucache ,**Georgel Gabor**, Constantin-Catalin Dosoftei, ”*Integrated Learning in Electrical and Control Engineering Using an Educational Elevator System*”, International Conference and Exposition on Electrical and Power Engineering (EPE), 2020, , indexată IEEEExplore.
8. Georgian-Cosmin Pintilie, Adrian Traian Plesca, Florin-Andrei Rusu ,**Georgel Gabor**, ”*New Materials for Heating Systems*”, 12th INTERNATIONAL CONFERENCE AND EXHIBITION ON ELECTROMECHANICAL AND ENERGY SYSTEMS – SIELMEN, 2019, indexată IEEEExplore.
9. Florinel Lupoiu, Adrian Traian Plesca, **Georgel Gabor**, ”*New Solution for Cereals, Vegetables and Fruits Storage*”, 12th INTERNATIONAL CONFERENCE AND EXHIBITION ON ELECTROMECHANICAL AND ENERGY SYSTEMS – SIELMEN, 2019, indexată IEEEExplore.
10. **Georgel Gabor**, Florin-Andrei Rusu, Adrian Traian Plesca, Costica Nituca, ”*Analysis of sliding electromagnetic coupling parameters in a PLC automation system*”, 12th INTERNATIONAL CONFERENCE AND EXHIBITION ON ELECTROMECHANICAL AND ENERGY SYSTEMS – SIELMEN, 2019, indexată IEEEExplore.
11. **Georgel Gabor**, Georgian-Cosmin Pintilie , Adrian Traian Plesca, Maricel Cardasim, ”*Temperature monitoring system using an infrared temperature sensor connected to a PLC*”, 12th INTERNATIONAL CONFERENCE AND EXHIBITION ON

ELECTROMECHANICAL AND ENERGY SYSTEMS – SIELMEN, 2019, indexată IEEEExplore.

12. **G. Gabor**, G. Pintilie, C. Dumitrescu, C. Nituca, A. T. Plesca, “*Application of Industrial PROFIBUS-DP protocol*, International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, indexată IEEEExplore.
13. Daniel-Adrian Sticea; **Georgel Gabor**; Gabriel Chiriac; Mihai Albu; Anamaria Brinzei,” *DC Motor Closed Loop Speed Control Using Rapid Control Prototyping*”, 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), 16-18 October 2025, DOI: 10.1109/SIELMEN67352.2025.11260740
14. **G. Gabor**, C. Nitucă, A. Dragomir, G. Chiriac, V. Cazac; M. Boca, *Low Voltage Circuit Breaker Controlled by Programmable Logic Controller*, 15th International Conference on Electromechanical and Energy Systems. (SIELMEN 2025), Chisinau, R. Moldova, 2025

J. Invenții.

K. Contracte de cercetare.

1. **Membru în International project:** Programme 3 –European and international cooperation, Scientific domain: Energy”. Title of the project: *The experimental study on overload current arc characteristics of DC electric fuse*. Period of the project: 02/07/2018 - 31/12/2019. Project manager –Lecturer Ph.D. Eng. COSTICĂ NIȚUCĂ. Xi'an Jiaotong University, China, 2019
2. **Membru** în proiectul de cercetare: The experimental study on overload current arc characteristics of DC electric fuse - DCFUSE, PN-III-P3-3.1-PM-RO-CN-2018-0060, România-China, „Gheorghe Asachi” Technical University of Iasi - Xi'an Jiaotong University. Director proiect, Conf.dr.ing. C. Nițucă. Perioada de implementare 2018-2019.
3. **Membru proiect de inovare - PROOF of CONCEPT** competiție organizată în cadrul proiectului TRANSTEH. Proiect: *INTELLIFT: Mini-lift intelligent modular, cu utilizări multiple*, Director de proiect: DORIN-DUMITRU LUCACHE, 2020
4. **Membru proiect:** *New concept on energy efficiency heating system for the passenger thermal confort in electric buses* – THERMAL-E-BUS, Project manager –Lecturer Ph.D. Eng. GABRIEL CHIRIAC, 2021
5. **Membru** în proiectul de cercetare: Improving the cross-border public transportation using electric buses supplied with renewable energy – ELBUS, 2SOFT/3.1/54, European Neighbourhood Instrument (ENI), Cross Border Cooperation (CBC) from Joint Operational Programme Romania – Republic of Moldova, Priority 3.1 – Development of cross-border transport infrastructure and ICT infrastructure. Director proiect, Conf.dr.ing. C. Nițucă. Perioada de implementare: 2020 – 2023.
6. **Membru** in proiectul de cercetare PNCDI IV - Program 5.8 – Cooperare Europeană și Internațională Subprogramul 5.8.3 - Bilateral/Multilateral - Proiecte complexe bilaterale cu Republica MoldovaCoordonator: Universitatea Tehnică “Gheorghe Asachi” din Iași, România Partener 1: Universitatea Tehnică a Moldovei din Chișinău, Republica Moldova Titlul proiectului: Îmbunătățirea performanțelor tehnice și energetice ale sistemelor de propulsie multifazice pentru autobuze electrice – IPEBUS Numărul proiectului: PN-IV-PCB-RO-MD-2024-0264 Contract de

finanțare nr. 38PCBROMD/2025. Director proiect, Conf.dr.ing. C. Nițucă. Perioada de implementare 2025-2027.

L. Premii, distincții.

M.Alte realizări semnificative.

-

Data: 1. 11.2025

asist.dr.ing. Gabor Georgel

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Prof.dr.ing. Haba Cristian Gyozo

A. Teza de doctorat

Contribuții la sinteza structurilor numerice de comandă. Teză de doctorat. Universitatea Tehnică "Gheorghe Asachi" din Iași, 1999.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

1. K.Susman, S.Dolenc, J.Pavlin, A. Marcek-Chorvatova, Lubica Vareckova, P.Muursepp, D.D.Lucache, **C.G.Haba**, M.Cantarella, G.Ursino, M.Simopoulou, G.Ladas, ARphymedes: Teacher's Book, Publisher: University of St,Cyril and Methodius in Trnava, Slovakia - 2023, ISBN 978-80-572-0362-9, 75 pag.
2. G.Pavlendova, J.Sujanova, P. Hyder-Sujanova, A. Marcek-Chorvatova, Lubica Vareckova, S.Dolenc, J.Pavlin, K.Susman, P.Muursepp, **C.G.Haba**, D.D.Lucache, M.Cantarella, G.Ursino, M.Simopoulou, G.Ladas, ARphymedes: Caietul elevului, Publisher: University of St,Cyril and Methodius in Trnava, Slovakia - 2023, ISBN 978-80-572-0359-9, 167 pag.
3. **C.G.Haba**, The Use of Machine Learning Techniques for Monitoring of Photovoltaic Panel Functionality, 2021, in Internet of Energy for Smart Cities , Editors Anish Jindal, Neeraj Kumar, Gagangeet Singh Aujla, ISBN 9781003047315,CRC Press, Taylor and Francis Group, Boca Raton, FL,USA
4. **C.G.Haba**, L.Breniuc, V.David, Developing Embedded Platforms for Ambient Assisted Living, **capitol** în Ambient Assisted Living and Enhanced Living Environments. Principles, Technologies and Control, Editors Ciprian Dobre, Constandinos X.Mavromoustakis, Nuno M. Garcia, Rossitza I. Goleva, George Mastorakis, Elsevier, Oxford, 2017, pp. 211-246. ISBN: 978-0-12-805195-5, DOI: 10.1016/B978-0-12-805195-5.00009-0

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS)

1. K.Susman, S.Dolenc, J.Pavlin, A. Marcek-Chorvatova, Lubica Vareckova, P.Muursepp, D.D.Lucache, **C.G.Haba**, M.Cantarella, G.Ursino, M.Simopoulou, G.Ladas, ARphymedes: Ghidul profesorului, Ed. Performantica, Iași - 2023, ISBN 978-630-328-025-7, 75 pag.
2. G.Pavlendova, J.Sujanova, P. Hyder-Sujanova, A. Marcek-Chorvatova, Lubica Vareckova, S.Dolenc, J.Pavlin, K.Susman, P.Muursepp, **C.G.Haba**, D.D.Lucache, M.Cantarella, G.Ursino, M.Simopoulou, G.Ladas, ARphymedes: Caietul elevului, Performantica, Iași - 2023, ISBN 978-630-328-023-3, 167 pag.
3. **C.G.Haba**, L.Breniuc, Proiectarea aplicațiilor în timp real, Casa de Editură Venus, Iași, ISBN978-973-756-030-8, 250 pg (44 rd/pag) , 2006
4. **C.G.Haba**, Sisteme de comandă a mașinilor electrice, Ed.Gh.Asachi, Iași, ISBN 973-8292-65-4, 240 pg (44 rd/pag) , 2002

5. C.G.Haba Programarea aplicațiilor de timp real. Îndrumar de laborator, Editura Politehnicum, Iași, ISBN978-973-621-431-8, 164 pg (40rd/pag), 2014.
6. Oana-Maria Asiminicesei, Alin Dragomir, Cristian-Gyöző Haba, Constantin-Cătălin Dosoftei, Oana-Cristina Beniugă, Ciprian-Romeo Comșa, Sebastian-Teodor Arădoaei, Marius-Ciprian Brânzilă, Antreprenoriat pentru ingineri și arhitecți. Vol. 3 Afaceri digitale, 2022, ISBN 978-606-685-923-5, Ed. Performantica, Iași
7. C.G.Haba, Tehnologia informației în susținerea transferului tehnologic al produselor și serviciilor, Ed. Performantica, 2016, 120 pagini, ISBN 978-606-685-472-6.
8. L.Breniuc, C.G.Haba, Proiectarea cu microcontrolere HCS12, Ed. Politehnicum, Iași, ISBN 978-973-621-393-9, 275 pagini (contrib. candidat 20%, 44 rd/pag), 2012
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J. Invenții (cereri de brevet de invenție)

1. A/00368/2016 Dispozitiv pentru distribuirea mai multor lichide
2. A/01162/2017 Sistem de încălzire configurabil cu panouri radiante modulare
3. A/00269/2019 Aparat de iluminat cu LED-uri

4. A/00921/2019 Dispozitiv pentru determinarea caracteristicilor de încovoiere, de răsucire și a frecvenței de rezonanță a unui obiect lamelar și metodă de generare a modelelor de variație a sarcinilor aplicate
5. A/00750/2019 Etalon de luminanță cu auto calibrare și monitorizare în IoT
6. A/00896/2019 Turn auto-portant de observație a surselor de poluare luminoasă
7. A/00424/2020 Corp de iluminat multifuncțional cu funcții pentru creșterea confortului și a securității

K. Contracte de cercetare/granturi

1. Autoclusters - The international cooperative network of educational and research institution with subcontractors and other bodies active in Automotive Industry, SEE EoI/A/594/1.2/X, Transnational South East Europe Program, Valoare UTI 158 000 EUR, 2009-2012, **Coordonator local**
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5. Sistem IoT de măsurare imagistică pentru temperatura de culoare și luminanță, PN-III-P2-2.1-CI-2018-1490 Parteneri Electro Max SRL și Universitatea Tehnică "Gheorghe Asachi" Iași, Membru
6. Studiu privind posibilitatea de apariție a supratensiunilor la conectarea-deconectarea mașinilor asincrone la rețea. Beneficiar: Enerconstruct Servicii – București, Contract 12115P/15.12.2009, 2009 Director: Conf.dr. ing. Voinea Radu COCIU, Membru
7. PSICOME - Utilizarea circuitelor integrate programabile de tip FPGA și CPLD în proiectarea sistemelor de comandă a mașinilor electrice Grant CNCSIS, Cod 233, GR 33/25.06.2007. Tema 12/2007 Suma grant 34000 RON, Tema 18/2008 Suma grant 38702 RON, 2007-2008, Director de grant
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9. Utilizarea tehnologiilor informaționale pentru învățarea și perfecționarea diagnosticului imagistic în patologia maxilo-facială, Grant CNCSIS, Cod 1204, GR 18/09.05.2007, Valoare grant 10 000 RON, Membru. Director grant Conf.dr.ing. Danisia Haba (UMF Iași), 2004-2007
10. INDIPHASO: Sistem de învățare la distanță pentru proiectarea aplicațiilor hardware-software încapsulate, Grant tip A cu CNCSIS, Tema 26/2004, cod CNCSIS 516, Valoare grant: 100 milioane lei, Tema 31/2005, cod CNCSIS 516, Valoare grant: 120 milioane lei, Tema 41/2006 Valoare grant: 135 milioane lei, 9 participanți, Director de grant, 2004-2006, Director de grant

11. Studii asupra îmbunătățirii performanțelor sistemelor de acționare din industria chimică. Beneficiar: SC Moldochim SA Iasi, Valoare contract 10 mil lei Contract nr. 1534P/21.07.2003, membru, Director contract Prof.dr.ing. Vasile Bahrin, 2003, Membru
12. Studii asupra eficientizării instalațiilor de dozare din industria chimică. Beneficiar: SC Direct SRL Iasi, Valoare contract 10 mil lei Contract nr. 1533P/21.07.2003, membru, Director contract Prof.dr.ing. Vasile Bahrin, 2003, Membru
13. Introducerea metodelor de coproiectare hardware/software pentru realizarea sistemelor de măsurare complexe, Grant tip A cu CNCSIS, cod 223 contract 3529/2001, tema 46, Valoare grant 55 mil lei, membru, Director grant Prof.dr.ing. Liviu Breniuc, 2001-2002, Membru
14. Sinteza circuitelor numerice secvențiale prin metode implicite folosind diagrame de decizie binara, Grant tip T cu ANSTI, tema B27/2000. Valoare grant: 20 milioane lei, Grant tip T cu ANSTI, A32/2001. Valoare grant: 22,1 milioane lei, 4 participanți, 2000-2001, Director de grant
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L. Premii, distincții

1. Medalie de bronz Ugal Invent 2021 Dispozitiv de masurare a incovoierii
2. Medalie de bronz Ugal Invent 2021 Aparat de iluminat cu led
3. Diploma de excelenta Ugal Invent 2021 acordata de Asociatia Justin Capra
4. Medalie de bronz Ugal Invent 2021 Dispozitiv de masurare a incovoierii
5. Diploma Gold Medal, Euroinvent 2023, Dorin Lucache, Cristian-Gyozo Haba
6. Diploma Excelenta Justin Capra, Euroinvent 2023, Dorin Lucache, Cristian-Gyozo Haba
7. Diploma Excelenta Association of European Inventors, Euroinvent 2023, Dorin Lucache, Cristian-Gyozo Haba
8. Diploma of Honour Gold Medal, Inventica 2023, Dorin Lucache, Cristian-Gyozo Haba, Mihaita Emanuel Anton, Gaba Pavlendova, Giannis Ladas
9. Diploma of Excellence, Silver Medal, Inventica 2025, National Institute of Inventics, 2025, Vieru Marian-Andrei, Haba Cristian-Gyozo
10. Diploma of Excellence, Silver Medal, Inventica 2025, National Institute of Inventics 2025, Balan Lucian, Haba Cristian-Gyozo,

M. Alte realizări semnificative

Data 03.03.2026

Semnătura

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

HARITON ANAMARIA

A. Teza de doctorat: Implementarea tehnologiilor web în sistemele de măsurare

B. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

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C. Lucrări științifice publicate în volumele conferințelor

1. Anamaria Hariton, Cristian Zet, Cristian Foșalău, The Influence of Target Color on the Measurement of the Distance Using LiDAR Sensor, EPEi 2024.
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4. Cristian Zet, Cristian Fosalau, Anamaria Hariton, Automated INL and DNL Testing System as a Didactic Laboratory Application, 13th International Symposium on Advanced Topics in Electrical Engineering, ATEE 2023, 5 pg.
5. Cristian Zet, Cristian Foșalău, Anamaria Hariton, Study on the possibilities of detecting recyclable waste using the dielectric properties of materials, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), October 6, 2021, pp. 444-447, 4 pg
6. Anamaria Hariton, Cristian Zet, Emil Vremera, Cristian Fosalau, Remote Laboratory - Study of Digital Oscilloscope, 11th International Conference and Exposition of Electrical and Power Engineering (EPE2020), Iași, October 22-23, 2020, pp. 495-500, 6 pg.
7. Cristian Fosalau, Cristian Zet, Anamaria Hariton, Using Kalman Filters for Increasing Accuracy of Distance Measurement Using a Single Camera, 11th International Conference and Exposition of Electrical and Power Engineering, Iași (EPE2020), October 22-23, 2020, pp. 575-581, 7 pg.

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Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

șef lucrări univ. dr. ing. IGNĂTESCU-MANEA IRINA

A. Teza de doctorat.

„Contribuții la reducerea impactului căilor de comunicație asupra mediului înconjurător”, 2010, Universitatea Tehnică „Gh. Asachi” Iași, Inginerie civilă, prof. univ. dr. ing. HORIA ZAROJANU

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Andrei Slonovschi, Liviu Prună, Irina IGNĂTESCU-MANEA, Ioana-Roxana Baciuc Infografică. Autocad. Comenzi ce permit modificarea proprietăților obiectelor. Comenzi, setări și stiluri de cotare. Cotarea desenelor tehnice. Comenzi de interogare. Comenzi ce permit crearea conturilor închise. Editura Pim, Iași, 2024, ISBN 978-606-13-8168-5

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

G. Lucrări științifice publicate în reviste din străinătate.

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J. Invenții.

K. Contracte de cercetare.

L. Premii, distincții.

M. Alte realizări semnificative.

Data,
03.03.2026

Nume, semnătura
Irina Ignătescu-Manea

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Ivanov Ovidiu

A. Teza de doctorat.

1. „Contribuții la managementul congestiilor în sistemele electroenergetice, 2011, Universitatea Tehnică "Gheorghe Asachi" din Iași, Domeniul Energetică, conducător științific prof. dr. ing. Gavrilăș N.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Monitorizarea și controlul stării statice a SEE – suport de curs (153 pagini) - 2025

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4. **Ivanov O.** - Monitoring and Management of Electrical Systems – note de curs (2014-2015).
5. **Ivanov O.** - Piete de Energie - Management si Reglementare si Piete de Energie si Politici Energetice – note de curs (2012-2013).
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Fișierele sunt disponibile online la adresa web:
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b. Reviste BDI

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3. Georgescu Gh., Neagu B.C., **Ivanov O.**, Voltage Quality Analysis in Low Voltage Public Electric Distribution Networks Operated in Distorted and Unbalanced Conditions, Buletinul Institutului Politehnic din Iași, Vol. 62 (66), No. 2, 2016, pag. 81-95, 2016 (Index Copernicus, Ulrich's).
4. Neagu B.C., Georgescu Gh., **Ivanov O.**, The Evaluation of Active Power Losses in Low Voltage Distribution Systems Operated in Distorting Steady State, Buletinul Institutului Politehnic din Iași, Vol. 62 (66), No. 2, 2016, pag. 97-109, 2016 (Index Copernicus, Ulrich's).
5. **Ivanov O.**, Gavrilas M., Improvement of a Neural Network Based State Estimation Algorithm by Using PMU Measurements, Buletinul Institutului Politehnic din Iași, Tom LX (LXIV), No. 4, 2014, pag. 9-22, 2014 (Index Copernicus, Ulrich's).
6. Vicol B., Gavrilas M., **Ivanov O.**, Kriukov Al., On-Line Transmission Line Parameter Identification using Synchrophasor Measurements, 5th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 28-31 May, Acta Electrotehnica, special issue, 2013, pag. 526-529, 2013 (DOAJ).
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- Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 18-21 May, Acta Electrotehnica, special issue, 2015, pag. 1-4, 4 pg., 2015 (Cod CNCSIS 576).
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2. **Ivanov O.**, Neagu B.C., Nițu A.I., Gavrilas M., An Improved Metaheuristic Algorithm for Load Balancing in LV Distribution Networks, 2021 9th International Conference on Modern Power Systems (MPS), 2021, pp. 1-5, doi: 10.1109/MPS52805.2021.9492680, WOS:000941563300084
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J. Invenții.

K. Contracte de cercetare/granturi.

a. Granturi

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b. Contracte de cercetare

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14. Elaborare studii - Servicii de consultanta de specialitate in proiectul E.ON Distributie Romania S.A. de reducere a pierderilor tehnice in rețelele de distributie a energiei electrice Contract nr. 684P/21.04.2016, Valoare: 48000 lei, Beneficiar: E.On Distribuție Romania S.A., 2016-2017, **Ivanov O.** (membru în echipă).
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16. Norma de consum propriu tehnologic in rețelele de distributie pentru anul 2013, Contract nr. 337P/21.03.2014, Valoare: 10000 lei, Beneficiar: E.ON Moldova Distribuție S.A., 2014, **Ivanov O.** (membru în echipă).
17. Incarcarea dinamica a liniilor electrice aeriene prin evaluarea on-line a capacitatii de transport, Contract nr. 912P/03.07.2012, Valoare: 65000 lei, Beneficiar: Transelectrica S.A. Sucursala Transport Bacau, 2012, **Ivanov O.** (membru în echipă).
18. Studiu de determinare a consumului propriu tehnologic in rețelele de joasa tensiune aferente jud. Bacau, apartinand E.ON Moldova Distributie S.A, Contract de cercetare nr. 3564P/01.11.2011, Valoare: 50000 lei, Beneficiar: E.ON Moldova Distribuție S.A., 2011, **Ivanov O.** (membru în echipă).
19. Amplasarea surselor de putere în rețelele de distribuție de 110 kV și MT ale S.C. E.ON Moldova Distribuție S.A. după criteriul pierderilor minime de energie și al apropierii surselor de consumator și studiu privind compensarea și reglarea puterii reactive în scopul optimizării nivelului de tensiune în rețelele de 110 kV ale S.C. E.ON Moldova Distribuție S.A, Contract de cercetare nr. 7405P/6.10.2007, Valoare: 145440 lei, Beneficiar: E.ON Moldova Distribuție S.A., 2006-2007, **Ivanov O.** (membru în echipă).
20. Cercetari privind analiza si optimizarea regimurilor de functionare ale rețelilor electrice de distributie folosind elemente ale inteligentei artificiale, Contract cercetare nr 4030P/15.11.2004, Valoare: 29750 lei, Beneficiar: F.D.F.E.E. Electrica „Muntenia Sud” Bucuresti, 2004, **Ivanov O.** (membru în echipă).

L. Premii, distincții.

M. Alte realizări semnificative

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Eduard Luncă

A. Teza de doctorat

1. *Cercetări privind sistemele de măsură, control și monitorizare a nivelului poluării electromagnetice*, 2008, Domeniul Inginerie electrică, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: Prof. dr. ing. Mihai Crețu.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

1. Marius Brânzilă, **Eduard Luncă**, capitolul *Remote Test-bench Experiments for Teaching Laboratories Based on LabVIEW, Python and Java*, în volumul *Online Laboratories in Engineering and Technology Education* (editori: Dominik May, Michael E. Auer, Alexander Kist), Editura Springer, Cham, 2024, pp. 301-321, ISBN 978-3-031-70770-4.
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3. **E. Lunca**, S. Vornicu, A. Salceanu, *Numerical Modelling of the Magnetic Fields Generated by Underground Power Cables with Two-point Bonded Shields*, 25th IMEKO TC4 International Symposium and 23rd International Workshop on ADC Modelling and Testing (IMEKO TC-4 2022), Brescia, Italia, September 12-14, 2022, pp. 221-226 (**SCOPUS**).
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7. A. Salceanu, S. Vornicu, **E. Lunca**, M. Istrate, *Influence of High Voltage Bundle Configurations on Human Exposure*, 11th International Conference and Exposition on Electrical and Power Engineering – EPE 2020, Iasi, Romania, October 22-23, 2020, pp. 1-6 (**IEEE Xplore**, **SCOPUS**).
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41. A. Salceanu, Oana Neacsu, V. David, **E. Lunca**, *Measurements upon Human Body Capacitance: Theory and Experimental Setup*, 15th IMEKO TC4 International Symposium on Novelties in Electrical Measurements and Instrumentation, Iasi, Romania, Sept. 19-21, 2007, Vol. I, pp. 48-51 (**SCOPUS**).
42. **E. Lunca**, C. Donciu, M. Cretu, A. Salceanu, *A Basic Virtual Test System for EMI/RFI Problems*, 14th IMEKO TC4 International Symposium on New Technologies in Measurement and Instrumentation, Gdynia-Jurata, Polonia, Sept. 12-15, 2005, Vol. II, pp. 418-421 (**SCOPUS**).
43. C. Donciu, M. Cretu, **E. Lunca**, *Constant Passage Technique for Undersampling Method with Two Sampling Rates*, 14th IMEKO TC4 International Symposium on New Technologies in Measurement and Instrumentation, Gdynia-Jurata, Polonia, Sept. 12-15, 2005, Vol. I, pp. 250-253 (**SCOPUS**).
44. V. David, A. Salceanu, **E. Lunca**, *The Measurement of Electromagnetic Fields in Hospital Electrotherapy Rooms*, 14th IMEKO TC4 International Symposium on New Technologies in Measurement and Instrumentation, Gdynia-Jurata, Polonia, Sept. 12-15, 2005, Vol. I, pp. 275-278 (**SCOPUS**).
45. **E. Lunca**, M. Cretu, V. David, C. Donciu, *A Virtual Instrument For Remote Monitoring Of Electromagnetic Field*, 13th IMEKO TC4 International Symposium on Measurements for Research and Industry Applications, Atena, Grecia, Sept. 29 - Oct. 01, 2004, Vol. II, pp. 669-672 (**SCOPUS**).
46. **E. Lunca**, A. Salceanu, S. Hanganu, C. Donciu, *Virtual Instrument Aiming to Extend the Capabilities of the Spectrum Analyzers*, 13th IMEKO TC4 International Symposium on Measurements for Research and Industry Applications, Atena, Grecia, Sept. 29 - Oct. 01, 2004, Vol. II, pp. 683-686 (**SCOPUS**).
47. M. Brinzila, C. Fosala, **E. Lunca**, M. Cretu, *A complex system for environmental monitoring with a prototype data acquisition board*, 13th IMEKO TC4 International Symposium on Measurements for Research and Industry Applications, Atena, Grecia, Sept. 29 - Oct. 01, 2004, Vol. II, pp. 428-430 (**SCOPUS**).

48. V. David, A. Salceanu, M. Cretu, **E. Lunca**, *The Survey of Electromagnetic Environment near RF Transmitters*, 13th IMEKO TC4 International Symposium on Measurements for Research and Industry Applications, Atena, Grecia, Sept. 29 - Oct. 01, 2004, Vol. I, pp. 21-25 (**SCOPUS**).
49. A. Salceanu, M. Cretu, V. David, **E. Lunca**, *Determining ESD Threats for a Human-Furniture Model in Motor Vehicles*, 13th IMEKO TC4 International Symposium on Measurements for Research and Industry Applications, Atena, Grecia, Sept. 29 - Oct. 01, 2004, Vol. II, pp. 516-518 (**SCOPUS**).
50. C. Donciu, Cristina Schreiner, M. Cretu, **E. Lunca**, *A Distributed Monitoring System For Power Quality*, 13th IMEKO TC4 International Symposium on Measurements for Research and Industry Applications, Atena, Grecia, Sept. 29 - Oct. 01, 2004, Vol. II, pp. 727-730 (**SCOPUS**).
51. C. Donciu, M. Cretu, S. Hanganu, **E. Lunca**, *Narrow Spikes Detection From Distorted Signals*, 13th IMEKO TC4 International Symposium on Measurements for Research and Industry Applications, Atena, Grecia, Sept. 29 - Oct. 01, 2004, Vol. II, pp. 731-734 (**SCOPUS**).
52. Andrei Salceanu, V. David, **E. Lunca**, *Comparative study of the electric field emissions for various displays*, 10th International Conference on Electromechanical and Power Systems – SIELMEN 2015, Chisinau, Rep. Moldova, Oct. 08-09, 2015, pp. 423-426.
53. **E. Lunca**, V. David, A. Salceanu, I. Cretescu, *Assessing the Human Exposure due to Wireless Local Area Networks in Office Environments*, 6th International Conference on Environmental Engineering and Management – ICEEM 06, Balatonalmadi, Ungaria, Sept. 01-04, 2011, Conference Abstracts Book, pp. 77-78.
54. **E. Lunca**, V. David, A. Salceanu, Oana Neacsu, *Broadband Magnetic Field Meter*, 5th International Conference on Electrical and Power Engineering – EPE 2008, Iasi, Romania, lucrare publicată în Buletinul Institutului Politehnic Iasi, Tomul LIV (LVIII), Fasc. 3, pp. 387-392, 2008.
55. **E. Lunca**, V. David, S. Ursache, M. Cretu, *On the EMF Exposure Due to Video Display Units*, 5th International Conference on Electrical and Power Engineering – EPE 2008, Iasi, Romania, lucrare publicată în Buletinul Institutului Politehnic Iasi, Tomul LIV (LVIII), Fasc. 3, pp. 405-410, 2008.
56. A. Salceanu, Oana Neacsu, **E. Lunca**, *Study Upon the Influence of Gun Orientation and Application Point in the Immunity Tests*, 5th International Conference on Electrical and Power Engineering – EPE 2008, Iasi, Romania, lucrare publicată în Buletinul Institutului Politehnic Iasi, Tomul LIV (LVIII), Fasc. 3, pp. 221-226, 2008.
57. **E. Lunca**, A. Salceanu, V. David, M. Cretu, *Dealing with Electromagnetic Interference Problems by Using Near-Field Probes*, 5th International Conference on Electromechanical and Power Systems – SIELMEN 2005, Chisinau, Rep. Moldova, Oct. 06-08, 2005, Vol. I, pp. 351-354.
58. **E. Lunca**, C. Donciu, A. Salceanu, M. Cretu, *Virtual Interface for Spectral Measurements*, 5th International Conference on Electromechanical and Power Systems – SIELMEN 2005, Chisinau, Rep. Moldova, Oct. 06-08, 2005, Vol. I, pp. 355-358.
59. V. David, A. Salceanu, **E. Lunca**, I. Nica, *The Measurement of Magnetic Fields Near Power Lines*, 5th International Conference on Electromechanical and Power Systems – SIELMEN 2005, Chisinau, Rep. Moldova, Oct. 06-08, 2005, Vol. I, pp. 243-246.
60. A. Salceanu, V. David, **E. Lunca**, *Self-oscillating Extension of the Human-Body ESD Model*, 5th International Conference on Electromechanical and Power Systems – SIELMEN 2005, Chisinau, Rep. Moldova, Oct. 06-08, 2005, Vol. II, pp. 1061-1062.
61. V. David, Loreley Buchholtzer, **E. Lunca**, I. Nica, *Preliminary Measurements Of The Electromagnetic Environment In Hospitals*, 3rd International Conference on Electrical

and Power Engineering – EPE 2004, Iasi, Romania, lucrare publicată în Buletinul Institutului Politehnic Iași, Tomul L (LIV), Fasc. 5B, pp. 797-801, 2004.

62. A. Salceanu, V. David, **E. Lunca**, Geanina Dumitru, *Evaluating ESD Menace In Automotive Environments*, 3rd International Conference on Electrical and Power Engineering – EPE 2004, Iasi, Romania, lucrare publicată în Buletinul Institutului Politehnic Iași, Tomul L (LIV), Fasc. 5B, pp. 877-881, 2004.

J. Invenții

1. V. David, **E. Lunca**, I. Pavel, *Metodă se supraveghere automată a câmpului magnetic cu detecția și caracterizarea câmpurilor tranzitorii*, Brevet de invenție nr. 133581 (data eliberării 30.07.2024).

K. Contracte de cercetare/granturi

1. *Sistem computerizat de monitorizare în timp real a nivelului poluării electromagnetice cu transmiterea informației prin Internet*, Grant tip TD, cod CNCISIS 193, 18000 RON, 2004 – 2006 (GR. 33371/2004; GR. 34664/2005; A1/GR. 164/2006) (**Director**).
2. Grant tip BD (pentru tineri doctoranzi), cod CNCISIS 7, cu tema *Cercetări privind sistemele de măsură, control și monitorizare a nivelului poluării electromagnetice*, 9533 RON, 2003 – 2007 (**Director**).
3. *Cercetări privind expunerea umană la câmpuri electromagnetice în mediul urban (Evaluation of human exposure to electromagnetic fields in urban areas)*, Bursă de cercetare postdoctorală în cadrul proiectului POSDRU/89/1.5/S/57649, PERFORM-ERA, finanțat de Fondul Social European și Guvernul României, Martie 2011 - Februarie 2013, 1000 euro/lună (**Responsabil temă**).
4. *Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetic într-un oraș durabil (SMART URBAN ISLE)*, Proiect internațional ERA NET Cofund, Contract 83/2016, 710968,5 RON, 2016 – 2017, Director Prof. Romeo Ciobanu (**Membru**).
5. *Instrumentație la distanță pentru noile griduri regionale dedicate*, Bilateral România – Bulgaria, Nr. 62/2008, 121869,49 RON, 2008 – 2009, Director Prof. Cristina Schreiner (**Membru**).
6. *Filme ceramice subțiri nanoporoase din cristale zeolitice pe bază de siliciu pentru materiale cu constanta dielectrică redusă*, Bilateral România – Coreea de Sud, Nr. 64/2008, 204851,07 RON, 2008 – 2009, Director Prof. Romeo Ciobanu (**Membru**).
7. *Ecrane și panouri absorbante pentru utilizări speciale bazate pe compozite nano-structurale cu arhitectura predefinită și proprietăți dielectrice și electromagnetice personalizate*, Bilateral România – Turcia, Nr. 63/2008, 125646.14 RON, 2008 – 2009, Director Prof. Romeo Ciobanu (**Membru**).
8. *Ecrane electromagnetice spațiale bazate pe funcționalizare diferențiată cu nano / micro-particule (DifShield)*, PNII Parteneriate, Nr. 260/2014, 1370000 RON, 2014 – 2017, Responsabil Prof. Codrin Donciu (**Membru**).
9. *Rețea wireless de senzori pasivi de hidrogen de tip flex-on-chip pe bază de OLC-uri (onionlike carbon) manipulate cu ajutorul dielectroforezei (H2Sense)*, PNII Parteneriate, Nr. 43/2014, 331079 RON, 2014 – 2015, Director Prof. Marius Olariu (**Membru**).
10. *Sistem complex de monitorizare a alunecărilor de teren utilizând traductoare bazate pe noi materiale și tehnologii (LANDSLIDE)*, PNII Parteneriate, Nr. 63/2012, 1147571 RON, 2012 – 2015, Director Prof. Cristian Zet (**Membru**).

11. *Senzori bazați pe elemente de detecție nanometrice pentru aplicații în nano-medicină*, Colab. PNII Parteneriate, Nr. 12-109/2008, 79995 RON, 2009 – 2011, Director Prof. Cristian Foșalău (**Membru**).
12. *Microsenzori acustici pe bază de nanofire magnetostrictive pentru aplicații medicale*, Colab. PNII Parteneriate, Nr. 12-114/2008, 80000 RON, 2011, Director Prof. Cristian Foșalău (**Membru**).
13. *Sistem pe bază de microfire magnetice pentru neutralizarea activării la distanță a explozivilor prin intermediul telefonului*, Colab. PNII Parteneriate, Nr. 82-096/2008, 30000 RON, 2011, Director Prof. Cristian Foșalău (**Membru**).
14. *Microsenzori magnetici implantabili pentru aplicații medicale*, Colab. PNII Parteneriate, Nr. 12-110/2008, 40000 RON, 2011, Director Prof. Cristian Foșalău (**Membru**).
15. *Metodologie dielectrică nedistructivă neinvazivă comparativă de detectare rapidă a ingredientelor cu potențial major de risc pentru sănătate din produsele alimentare*, PNII Parteneriate, Nr. 51-015/2007, 627691.01 RON, 2007 – 2010, Director Prof. Romeo Ciobanu (**Membru**).
16. *Noi metode și tehnici biomedicale de investigare, diagnosticare și monitorizare neinvazivă cu radiații electromagnetice neionogene (BIOELECTRA)*, Colab. PNII Parteneriate, Nr. 41-089/2007, 45000 RON, 2009, Responsabil Prof. Alexandru Sălceanu (**Membru**).
17. *Dezvoltarea conceptului de clădire generator-convertor de energie regenerabilă, cu autonomie energetică ridicată și acumulare în infrastructură și sol (RENERGHOM)*, Colab. PNII Parteneriate, Nr. 21-066/2007, 90000 RON, 2008, Responsabil Prof. Alexandru Sălceanu (**Membru**).
18. *Susținerea integrării cercetării românești în domeniul poluării electromagnetice în rețele, programe și parteneriate europene de profil (INT-€-EMP)*, CEEX, Nr. 226/2006, 154830 RON, 2006 – 2008, Director Prof. Alexandru Sălceanu (**Membru**).
19. *Metode și tehnici magnetometrice pentru investigarea activității cardiace (CARDIOMAG)*, Colab. CEEX, Nr. 136/2006, 100000 RON, 2008, Responsabil Prof. Alexandru Sălceanu (**Membru**).
20. *Ecrane pentru construcții speciale bazate pe structuri Chiral-Fagure*, CEEX, Nr. 46/2006, 550000 RON, 2006 – 2008, Director Prof. Marinel Temneanu (**Membru**).
21. *Dezvoltarea parteneriatelor C/D prin includerea excelenței românești, în vederea promovării de proiecte comune în domeniul materialelor avansate nanostructurate destinate ecranelor de protecție la radiațiile electromagnetice în domeniul GHz (EPRM-Net)*, CEEX, Nr. 202/2006, 150000 RON, 2006 – 2008, Director Prof. Cristina Schreiner (**Membru**).
22. *Biocompozite obținute prin reciclarea deșeurilor de PET și utilizarea de derivați ligno-celulozici*, CEEX, Nr.79/2006, 720000 RON, 2006 – 2008, Director Prof. Romeo Ciobanu (**Membru**).
23. *Dezvoltarea capacității de integrare a României în cadrul programelor, platformelor și rețelelor europene în domeniul obținerii de biocompozite cu aplicații multisectoriale*, CEEX, Nr.179/2006, 130000 RON, 2006 – 2008, Director Prof. Romeo Ciobanu (**Membru**).
24. *Dezvoltarea capacității de integrare a României în cadrul programelor, platformelor și rețelelor europene în domeniul sistemelor virtuale și distribuite de design și management al cercetării*, CEEX, Nr.188/2006, 110000 RON, 2006 – 2008, Director Prof. Cristina Schreiner (**Membru**).
25. *Dezvoltarea capacității de integrare a României în cadrul programelor, platformelor și rețelelor europene în domeniul metodelor comparative neinvazive și nedistructive de analiză a calității și securității alimentelor*, CEEX, Nr.173/2006, 150000 RON, 2006 – 2008, Director Prof. Romeo Ciobanu (**Membru**).

26. *Sistem integrat de inspecție video-inteligentă a materialelor textile dezvoltat prin metode virtuale de procesare a imaginii*, CEEEX, Nr. 57/2006, 499000 RON, 2006 – 2008, Director Prof. Marinel Temneanu (**Membru**).
27. *Sistem inteligent de irigare de precizie implementabil pe structuri automate cu deplasare circulară sau liniară*, CEEEX, Nr. 51/2006, 467300 RON, 2006 – 2008, Director Prof. Codrin Donciu (**Membru**).
28. *Dezvoltarea parteneriatelor C/D în vederea promovării unor proiecte europene în domeniul sistemelor distribuite de monitorizare a mediului*, CEEEX, Nr. 201/2006, 137400 RON, 2006 – 2008, Director Prof. Marinel Temneanu (**Membru**).
29. *Crearea unui mecanism suport de determinare a indicatorilor științifici pentru evaluarea și atestarea instituțiilor românești de CDI, nu cele academice și universitare, în perspectiva aderării la ERA*, Colab. CEEEX, Nr. 06-8-66/2006, 160000 RON, 2006 – 2008, Responsabil Prof. Mihai Crețu (**Membru**).
30. *Racordarea principiilor de evaluare și atestare a instituțiilor de CDI la criteriile ERA*, Colab. CEEEX, Nr. 238/2006, 20000 RON, 2006-2008, Responsabil Prof. Mihai Crețu (**Membru**).
31. *Metode și tehnici neinvazive cu microunde pentru detecția timpurie a cancerului de sân (CANCERDET)*, Colab. CEEEX, Nr. 8/2005, 50000 RON, 2007, Responsabil Prof. Alexandru Sălceanu (**Membru**).
32. *Laborator pentru încercări de imunitate la descărcări electrostatice (LIDES)*, CEEEX, Nr. 187/2006, 299500 RON, 2006 – 2007, Director Prof. Alexandru Sălceanu (**Membru**).
33. *Sistem informatic virtual de instruire interactivă la distanță în domeniul măsurărilor electrice*, Grant tip A, cod CNCSIS 443, 89096,4 RON, 2005 – 2007, Director Prof. Mihai Crețu (GR.27637/2005, T. 18; A1/GR. 164/2006, T. 26; A.Ad. GR. 80/2007, T.16) (**Membru**).
34. *Supravegherea înconjurătorului electromagnetic*, Grant tip A, cod CNCSIS 801, 46850 RON, 2003 – 2005, Director Prof. Valeriu David (GR. 40222/2003, T. 7; GR. 33371/2004, T. 54; A.Ad.1 34664/2005) (**Membru**).
35. *Sistem de măsurare distribuită dezvoltat prin metode de instrumentație virtuală*, Grant tip AT, cod CNCSIS 330, 15000 RON, 2003 – 2004, Director Prof. Codrin Donciu (A.Ad 33557/2003; GR. 33371/2004 T. 54) (**Membru**).

L. Premii, distincții

1. Articol premiat UEFISCDI, Top 1 - zona roșie, 2018 (**E. Lunca**, S. Ursache, A. Salceanu, *Computation and Analysis of the Extremely Low Frequency Electric and Magnetic Fields Generated by Two Designs of 400 kV Overhead Transmission Lines*, Measurement, Vol. 124, pp. 197-204, 2018, *FI 2023* – 5,2).
2. Articol premiat UEFISCDI, Top II - zona galbenă, 2020 (M. Andrusca, M. Adam, A. Dragomir, **E. Lunca**, R. Seeram, O. Postolache, *Condition Monitoring System and Faults Detection for Impedance Bonds from Railway Infrastructure*, Applied Sciences, Vol. 10, No. 18, pp. 1-20, 2020, *FI 2023* – 2,5).
3. Articol premiat UEFISCDI, Top 1 - zona roșie, 2023 (M. Andrusca, M. Adam, A. Dragomir, **E. Lunca**, *Innovative Integrated Solution for Monitoring and Protection of Power Supply System from Railway Infrastructure*, Sensors, Vol. 21, No. 23:7858, pp. 1-22, 2021, *FI 2023* – 3,4).
4. Gold Medal Diploma, *Automatic survey of magnetic field with detection and characterization of transient fields* (autori: Valeriu David, **Eduard Luncă**, Ionel Pavel), International Innovation and Invention Show EURO POLITEHNICUS 2024, 1st Edition, 22 - 24 Nov. 2024, București, România.

M. Alte realizări semnificative

M1. Lucrări publicate în reviste de circulație națională

1. **E. Lunca**, C. Donciu, M. Cretu, *Aplicații server-client în LabVIEW (I). Comunicația TCP-IP și Remote Device Access*, Revista de Instrumentație Virtuală, nr. 1 (25), pp. 3-8, 2005.
2. **E. Lunca**, C. Donciu, M. Brinzila, A. Salceanu, *Aplicații server-client în LabVIEW (II). DataSocket și VI Server*, Revista de Instrumentație Virtuală, nr. 2 (26), pp. 27-32, 2005.
3. **E. Lunca**, C. Donciu, A. Salceanu, V. David, *Sistem virtual de monitorizare a câmpului electromagnetic*, Revista de Instrumentație Virtuală, nr. 1 (25), pp. 21-24, 2005.
4. C. Donciu, **E. Lunca**, M. Brinzila, M. Cretu, *Utilizarea plăcii de sunet în măsurări de impedanță în joasă frecvență*, Revista de Instrumentație Virtuală, nr. 2 (26), pp. 33-34, 2005.
5. C. Donciu, **E. Lunca**, M. Brinzila, M. Cretu, *Metode de determinare a defazajului în domeniul discret al semnalelor*, Revista de Instrumentație Virtuală, nr. 1 (25), pp. 9-12, 2005.
6. C. Donciu, M. Brinzila, **E. Lunca**, M. Cretu, *Utilizarea senzorului de temperatură și umiditate relativă SHT11 în realizarea aplicațiilor de tip laborator virtual*, Revista de Instrumentație Virtuală, nr. 2 (26), pp. 35-37, 2005.

M2. Lucrări comunicate la mese rotunde

1. **E. Lunca**, M. Istrate, A. Salceanu, *Evaluation of the ELF Magnetic Field Exposure from Overhead Power Lines*, Masa rotundă *Interferențe electromagnetice în sisteme electroenergetice, între modelare numerică și validare experimentală*, organizată de Asociația IRE, în colaborare cu Universitatea Tehnică „Gheorghe Asachi” din Iași și Universitatea Tehnică din Cluj-Napoca, Iași, 25 septembrie 2013.

Data,

25.02.2026

*Conf. univ. dr. ing. **Eduard Luncă***

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Mitocaru Alexandru

- A. Teza de doctorat: Contribuții privind utilizarea interfețelor creier-calculator pentru controlul roboților**
- B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate**
- C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS**
- D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local**
- E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web**
- F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale**
- G. Lucrări științifice publicate în reviste din străinătate**
- H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS**
- I. Lucrări științifice publicate în volumele conferințelor**
 - 1) **A. Mitocaru**, A. Buzamat, M. S. Poboroniuc, D. C. Irimia, A. G. Baci, *Brain Computer Interface Controlled Humanoid Robot*, 2024 E-Health and Bioengineering Conference (EHB), IASI, Romania, 2024, pp. 1-4, doi:10.1109/EHB64556.2024.10805718 [indexat WoS]
 - 2) **A. Mitocaru**, M. S. Poboroniuc, A. G. Baci, D. C. Irimia, *Animated application to control humanoid robot through a brain-computer interface*, The VII th International Fair of Innovation and Creative Education for Youth (ICE-USV), July 07-09 2023, Suceava, Romania. [indexat IEEEExplore]
 - 3) M. S. Poboroniuc, R. Ionașcu, A. I. Roman, A. Piseru, T. Piseru, D. C. Irimia, **A. Mitocaru**, A. G. Baci, *Clinically tested mechatronic devices for hand rehabilitation*, The 15th Edition European Exhibition of Creativity and Innovation EUROINVENT, Mai 11-13 2024, Iași, România. [indexat IEEEExplore]
 - 4) M. S. Poboroniuc, A. I. Roman, R. Ionașcu, T. Piseru, A. Piseru, D. C. Irimia, A. G. Baci, **A. Mitocaru**, *Hybrid fes&mechatronic devices aiming to assess and support rehabilitation in stroke people*, THE 27th INTERNATIONAL CONFERENCE OF INVENTICS "INVENTICS 2023-Science of Creativity", June 21-23 2022, Iași, Romania. [indexat IEEEExplore]
 - 5) **A. Mitocaru**, M. S. Poboroniuc, D. C. Irimia, S. Plăcintă, A.G. Baci, *Brain-Computer Interface Based Control for a Humanoid Robot*, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), October 20-22 2022, Iași, Romania. [indexat IEEEExplore]
 - 6) S. Plăcintă, M. S. Poboroniuc, D. C. Irimia, **A. Mitocaru**, *Extending the Control's Number in Motor Imagery Based Brain-Computer Interfaces Applications*, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), October 20-22 2022, Iași, Romania. [indexat IEEEExplore]
 - 7) R. Ionașcu, M. S. Poboroniuc, A. I. Roman, **A. Mitocaru**, T. Piseru, E. A. Piseru, D. C. Irimia, *Hybrid FES & Mechatronic Hand Control Method for Upper Limb Rehabilitation Systems*, 2022 E-Health and Bioengineering Conference (EHB), November 17-18 2022, Iași Romania. [indexat IEEEExplore]
 - 8) **A. Mitocaru**, M. S. Poboroniuc, D. C. Irimia, A. G. Baci, *Comparison Between Two Brain Computer Interface Systems Aiming to Control a Mobile Robot*, 2021 International Conference on Electromechanical and Energy Systems (SIEMEN), October 06-08 2021, Iași, Romania. [indexat IEEEExplore]

- 9) R. Ionașcu, A. I. Roman, M. S. Poboroniuc, D. C. Irimia, **A. Mitocaru**, *A Smart FES and Mechatronic Glove System MANUTEX Aiming for Recovery of the Upper Limb in Stroke People*, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), October 06-08 2021, Iași, Romania. [indexat IEEEExplore]
- 10) M. S. Poboroniuc, D. C. Irimia, R. Ionașcu, A. I. Roman, **A. Mitocaru**, A. G. Baciuc, *Design and Experimental Results of New Devices for Upper Limb Rehabilitation in Stroke*, 2021 International Conference on e-Health and Bioengineering (EHB), November 18-19 2021, Iași Romania 2022. [indexat WoS]
- 11) D. C. Irimia, **A. Mitocaru**, A. G. Baciuc, M. S. Poboroniuc, *Steady-State Visual Evoked Potentials-based Control of a Mobile Robot Platform as a Preamble to Support Paraplegics Mobility*, 2019 E-Health and Bioengineering Conference (EHB), November 21-23 2019, Iași, Romania. [indexat WoS]

J. Invenții

K. Contracte de cercetare

L. Premii, distincții

- (1) **Medalie de aur** "Animated Application to Control Humanoid Robot Through a Brain-Computer Interface", Salonul Internațional de Inventică și Educație Creativă pentru Tineret, editia a VII-a 2023 –Universitatea „Ștefan cel Mare” din Suceava, 08 Iulie 2023
- (2) **Premiu "Junior Inventor"** in cadrul INVENTICA 2023 – Universitatea Tehnica "Gheorghe Asachi" Iasi, 23 Iunie 2023.
- (3) **Medalie de argint** "Tehnici de control ale roboților umanoizi bazate pe interfețe creier-calculator", Salonul Internațional de Inventică și Educație Creativă pentru Tineret, editia a VI-a 2022 –Universitatea „Ștefan cel Mare” din Suceava, Iulie 2022
- (4) **Medalie de aur** "Brain-Computer Interfaces to control a humanoid/mechanical robot", EUROINVENT – European Exhibition of Creativity and Innovation 13th edition, Mai 2022
- (5) **Medalie de aur** "Brain Computer Interfaces to control neuroprostheses and robots", EUROINVENT – European Exhibition of Creativity and Innovation 11th edition, 17 Mai 2019
- (6) **Premiu special** "Utilizarea interfețelor creier-calculator pentru controlul roboților mobili", Salonul Internațional de Inventică și Educație Creativă pentru Tineret, editia a III-a 2019 –Universitatea „Ștefan cel Mare” din Suceava, 19 Iulie 2019

M. Alte realizări semnificative

Data,
15.03.2026

Drd. ing. Mitocaru Alexandru

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Numele și prenumele: conf.dr.ing. **Munteanu Adrian**

A. Teza de doctorat:

1. *Cercetări privind ameliorarea performanțelor generatoarelor de energie electrică de pe autovehicule – 2008, Universitatea Tehnică Gheorghe Asachi din Iași, domeniul Inginerie Electrică, conducător: prof.dr.ing. Alecsandru Simion*

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

1. Alecsandru Simion, Leonard Livadaru and **Adrian Munteanu** „*Mathematical Model of the Three-Phase Induction Machine for the Study of Steady-State and Transient Duty Under Balanced and Unbalanced States*”, Induction Motors - Modelling and Control, Prof. Rui Esteves Araújo (Ed.), ISBN: 978-953-51-0843-6, InTech, DOI: 10.5772/49983.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS)

1. A. Munteanu - Electrical Engineering Technology, editura pim, ISBN 978-606-13-3373-8, pp :230, 2016
2. Adrian Munteanu - Mașini electrice – Curs, editura pim,ISBN 978-606-13-3533-6, pp.255, 2016
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D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

1. **Munteanu Adrian**, *Sisteme electrice pentru tracțiune și autovehicule* – Îndrumar laborator, http://www.didatec.ro/AllCourses.aspx?Paged=TRUE&p_Created=20130702%2023%3a11%3a45&p_ID=934&PageFirstRow=111&&View={3AFF0EBA-569B-4AD5-8C62-B9A626A9CE1B}
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F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. B. Virlan, A. Munteanu, L. Livadaru, A. Bobu, I. Ionut Nacu, A. Simion, "Dual Rotor Radial Flux Concentrated Wound Permanent Magnet Synchronous Machine with High Power Density," *Advances in Electrical and Computer Engineering*, vol.23, no.4, pp.41-50, 2023, doi:10.4316/AECE.2023.04005
2. L. Livadaru, A. Munteanu , Al. Simion, B. Virlan, S. Benelghali Study on the Fault-Tolerance Concept of the Five-Phase Permanent Magnet Synchronous Generator, *Advances in Electrical and Computer Engineering*, Vol. 14, Iss. 2, p. (77-84), may 2014, ISSN 1582-7445
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4. B. Virlan, A. Munteanu, I. -M. Dobos, I. Nacu, L. Livadaru and A. Simion, "A Study Regarding the Rotor Configuration of a High-power Density PMSM for Formula Student Race Car," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 291-296, doi: 10.1109/EPEi63510.2024.10758116
5. E. Anton, A. Munteanu, B. Virlan, A. Simion, I. Nacu and L. Livadaru, "The Study of Influence of Rotor Flux Barriers on Electromagnetic Performance of Interior Permanent Magnet Synchronous Machine (IPMSM)," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 547-550, doi: 10.1109/EPEi63510.2024.10758153
6. A. Munteanu, B. Virlan, L. Livadaru, I. Nacu, I. Nastas and A. Simion, "Numerical Analysis of a Fractional Slot Concentrated Winding Synchronous Machine with Series Hybrid Excitation," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 199-202, doi: 10.1109/EPEi63510.2024.10758173
7. B. Virlan, L. Livadaru, A. Munteanu, I. Nacu, I. Nastas and A. Simion, "Comparative Analysis Between Distributed and Fractional Slot Concentrated Winding of a Wound Rotor Synchronous Machine," 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Romania, 2023, pp. 1-4, doi: 10.1109/SIELMEN59038.2023.10290796.
8. L. Livadaru, B. Virlan, A. Munteanu, I. Nacu, A. Simion and I. Nastas, "Magnetic Circuit Segmentation Effects on Fractional Slot Concentrated Winding Synchronous Machine with Grain Oriented Electric Steel," 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Romania, 2023, pp. 1-4, doi: 10.1109/SIELMEN59038.2023.10290784.
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10. A. Munteanu, B. Virlan, L. Livadaru, I. Nacu, I. Nastas and A. -M. Dumitrescu, "Numerical Analysis and Experimental Validation of a Series Hybrid Excitation Synchronous Machine," 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Romania, 2023, pp. 1-6, doi: 10.1109/SIELMEN59038.2023.10290755.
11. Nastas Ion; Munteanu Adrian; Virlan Bogdan; Simion Alecsandru; Livadaru Leonard; Nacu Ionut, Comparative Analysis of Fractional Slot Concentrated Wound Permanent Magnet Synchronous Machines with Different Stator Grain Oriented Electric Steel Lamination Topologies, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE),, 605-609
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J. Invenții

K. Contracte de cercetare/granturi

1. Director proiect Contractul nr. 26421/14.07.2023, cu titlul Generator electric cu eficiență ridicată în construcție modulară realizat prin procedee tehnologice avansate – GEPTA – 24735 lei ($10 \cdot 24735 / 10000 = 24,735$)
2. Director proiect Contractul nr. 40176/31.10.2023, cu titlul Generator electric cu eficiență ridicată în construcție modulară realizat prin procedee tehnologice avansate – GEPTA ($10 \cdot 24735 / 10000 = 24,735$)
3. Cercetări privind ameliorarea performanțelor generatoarelor de energie electrică de pe autovehicule PN2 TD 83/2007 – director de proiect
4. Modele matematice și soluții de proiectare integrată a mașinilor electrice în scopul utilizării raționale a resurselor naturale și artificial, CEEEX 285/P3/2006 – partener P3 cu ICPE SA București, Responsabil contract: Simion Al. - membru
5. Sistem inteligent alternator – demaror – integrat pentru autovehicule - Contract nr. 27637/2005, Tema 35, Cod CNCSIS: 530, Director : Lucache Dorin - membru
6. Proiect NNX14AL87A intitulat 10 MW Ring Motor, finanțat de National Aeronautics and Space Administration (NASA), - cercetător invitat de către The Ohio State University – Center for Automotive Research, Septembrie-Decembrie 2014 și Aprilie-Iulie 2016

L. Premii, distincții

M. Alte realizări semnificative

Data

Semnătura

Lista de lucrări în domeniul de studii universitare de licență *Inginerie Electrică*

Numele și prenumele: Lect. Dr. Fiz. Nechifor Cristina-Delia

A. Teza de doctorat.

Studiul proprietăților fizico-chimice ale unor aliaje polimere cu potențiale aplicații biomedicale, **2011**, Universitatea “Alexandru Ioan Cuza” din Iași, Domeniul Fizică, conducător doctorat: prof. univ. dr. Dorohoi Dana-Ortansa.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

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1. **Cristina-Delia Nechifor**, Dana- Ortansa Dorohoi, Constantin Ciobanu, Polymeric Films Under UV and Gamma Radiations, The annals of the “Dunarea de Jos” University of Galati, Mathematicsc, Physics, Chemistry, Informatics fascicle II, supplement, year II (XXXI), pp. 141-147, **2008**.

2. D. Mihăilescu, **Cristina-Delia Nechifor**, M. Straticiuc, Mirela Bercea, Cross sections and protons optimum energy ranges for some medical radioizotopes production, ANALELE ȘTIINȚIFICE ALE UNIVERSITĂȚII “AL. I. CUZA” IAȘI, Tomul III, Biofizică, Fizică medicală și Fizica mediului, pp.31-36, **2007**.

I. Lucrări științifice publicate în volumele conferințelor.

1. **Cristina-Delia Nechifor**, Liana Cătălina Ciobanu, Dana- Ortansa Dorohoi, Constantin Ciobanu, UV treatment of some polymer membranes obtained from poly (hydroxy-urethane) and poly (vinyl alcohol), Proceedings of ECOMAT **2008**.

2. **Cristina-Delia Nechifor**, Ecaterina Angheluță, DanaOrtansa Dorohoi, Evaluation of Polyvinyl Alcohol Films with Different Stretching Degree, poster, A XXXVI Conferință Națională Fizica și Tehnologiile Educaționale Moderne, 16-17 Mai 2008, Iasi, Romania, publicată în Revista Științifică "V. Adamachi", pp. 76-78, **2008**.

3. Mihaela Miron, **Cristina Nechifor**, Dana Ortansa Dorohoi, Physical-chemical Principles of the Human Eye Accommodation, poster, A XXXVI Conferință Națională Fizica și Tehnologiile Educaționale Moderne, 16-17 Mai 2008, Iasi, Romania, publicată în Revista Științifică "V. Adamachi", pp. 86-88, **2008**.

4. Ecaterina Angheluță, **Cristina-Delia Nechifor**, Dana Ortansa Dorohoi, Medii Anizotrope, poster, A XXXVI Conferință Națională Fizica și Tehnologiile Educaționale Moderne, 16-17 Mai 2008, Iasi, Romania, publicată în Revista Științifică "V.Adamachi", Vol. XVII - Nr.1, pp. 93-95, **2008**.

5. **Cristina Delia Nechifor**, Mihai Straticiuc, Mirela Bercea, Dan Mihailescu, Cross sections and protons optimum energy ranges for 123 I and 201 Tl production, poster, A XXXVI Conferință Națională Fizica și Tehnologiile Educaționale Moderne, Mai 2007, Iasi, Romania, publicată în Revista Științifică "V. Adamachi", pp. 122-123, **2007**.

6. **Cristina-Delia Nechifor**, Maura Ioana Petcu, Dan Mihailescu, Monte Carlo simulation of high energy radiation trajectories inside different materials, a XXXV-a Conferință Națională "Fizica și Tehnologiile Educaționale Moderne", mai 2006, Iasi, Romania, publicată în Revista Științifică "V. Adamachi", pp. 111-112, **2006**

7. **Cristina-Delia Nechifor**, M. Bodale, 3D Measurement of radiation dose in tele-cobalt-therapy, a XXXIV-a Conferință Națională "Fizica și Tehnologiile Educaționale Moderne", mai 2005, Iasi, Romania, publicată în Revista Științifică "V.Adamachi", Vol. XIV - Nr.1, pp. 76-78, **2005**.

J. Invenții.

K. Contracte de cercetare.

1. Director de proiect cercetare: „Biosenzori cu cristale lichide ancorate pe substrat de alcool polivinilic modificat fizic (PVA-BIOSENZ)”, Tip Program: Granturi naționale de cercetare – ARUT, **Grant nr. GNaC2023_264/2024**

2. Cercetător Post-doctoral în proiectul: Obținerea polimerilor cu capacitate de recunoaștere moleculară pentru sistemele de eliberare controlată de medicamente, utilizând iradierea UV ca metoda fizică de grefare, finanțat prin competiție prin proiectul: POSDRU/89/1.5/S/63663

L. Premii, distincții.

M. Alte realizări semnificative.

Data,
10.03.2026

Nume, semnătura
Lector Dr. fiz. Nechifor Cristina-Delia

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

NIȚĂ LUCIAN

A. Teza de doctorat: Utilizarea microprocesoarelor in imbunatatirea performantelor metrologice ale sistemelor de masurare

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

Valeriya Naumova, L. Nita, Jens Ulrik Poulsen, Sergei V. Pereverzyev	Prediction Methods for Blood Glucose Concentration, capitol: "Meta-Learning Based Blood Glucose Predictor for Diabetic Smartphone App"	Springer, Cham, 2016, https://link.springer.com/chapter/10.1007%2F978-3-319-25913-0_6

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

L. Nita				Introducere in limbajul de programare C#	Editura PIM 2019
L.Nita	M.Cretu	C.Fosalau	O.Postolache	Interfatarea si programarea calculatoarelor pentru realizarea sistemelor informatice de masurare	Ed. MATRIX ROM Bucuresti
L.Nita	C.Sarmasanu	C.Fosalau		Sisteme informatice pentru gestiunea consumului de energie electrica	Editura VENUS, IASI

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

L.Nita	M.Cretu	C.Sarmasanu		Măsurări electronice.Proiectarea sistemelor de măsurare	Editura U.T.Iași

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

L.Nita	Programarea sistemelor de masurare – Indrumar de laborator	https://drive.google.com/folderview?id=0B-ArWRM7CmNgfkxwZjNHMFpoVHBmdmFRMXUtWnJSd2J6NGUwbU82b1VkakFyeWxmV3RqbK0&usp=sharing
L.Nita	Baze de date - curs	https://drive.google.com/drive/folders/1vRlAqi5WypPdszhS-uuE8wtFDtSwiIFX?usp=sharing
L.Nita	Programare Orientata Obiect - laborator	https://drive.google.com/drive/folders/1t4_CfgBijuPMjX5DaFtoBSpO55aoX2eL?usp=sharing
L.Nita	Baze de date - laborator	https://drive.google.com/drive/folders/1vRlAqi5WypPdszhS-uuE8wtFDtSwiIFX?usp=sharing
L. Nita	Full-Stack Web Development cu JavaScript, NestJS și React	https://drive.google.com/drive/folders/1sGX3PSxLSzyJhv9Iacn_BzDrok0CySdS?usp=drive_link

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

17	Hariton A.	Crețu M	Niță L, Sălcianu M	Outer gate automation using microcontrollers and radio frequency communication	Buletinul Institutului Politehnic din Iasi	LVII (LXI), f. 4, 2011, pp. 119-128
16	Hariton A.	Crețu M	Niță L, Sălcianu M	Database security on remote patient monitoring system	Buletinul Institutului Politehnic din Iasi	LVII (LXI), f. 4, 2011, pp. 129-138
15	Jens Ulrik Poulsen	Lucian Nita	Eric Renard	A diabetes management system empowering patients to reach optimised glucose control: From monitor to advisor.	Conf Proc IEEE Eng Med Biol Soc	1, 5270-1, 2010
14	L. Nita	M. Pobreanu	C. Sarvasanu	E-learning techniques for neuroprosthesis web-laboratory	Buletinul Institutului Politehnic din Iasi	TOMUL LII (LVI), FASC. 5, 2006
13	L. Nita	C. Sarvasanu	C. Fosala	Enterprise energy management system	Buletinul Institutului Politehnic din Iasi, Tomul XLVIII(LII),	Fasc. 5B, 2002
12	M. Pobreanu	D. Popescu	L. Nita	Modeling and control of a mobile manipulator	Bulletin of the Polytechnic Institute of Iassy, tom XLVI (L)	Fasc.5, 2000, Iasi
11	C. Sarvasanu	L. Nita	M. Cretu	An a method for linearizing parametric sensors	Buletinul Institutului Politehnic din Iasi, Tomul XLV(IL),	Fasc. 5A, sectia III, 1999
10	C. Sarvasanu	V. Sarvasanu	L. Nita	On the selective measuring of ion activity in biological media	Buletinul Institutului Politehnic din Iasi, Tomul XLV(IL), Fasc. 5A	sectia III, 1999
9	L. Nita	C. Sarvasanu	L. Breniu	An algorithm for synchronous sampling technique implementation	Buletinul Institutului Politehnic din Iasi, Tomul XLV(IL), Fasc. 5A	sectia III, 1999
8	L. Nita	C. Sarvasanu	L. Breniu	Module for interfacing to heating electrical appliance	Buletinul Institutului Politehnic din Iasi, Tomul XLV(IL), Fasc. 5A	sectia III, 1999
7	C. Zet	L. Nita	E. Vremera	A data acquisition board for IBM PC	Buletinul Institutului Politehnic din Iasi, Tomul XLV	Fasc.5, sectia III, 1995
6	C. Sarvasanu	M. Cretu	L. Nita	Des possibilités constructives d'amélioration de la sensibilité du capteur de proximité à reluctance variable	Buletinul Institutului Politehnic din Iași, Tomul XLI(XLV)	Fasc. 5 sectia III, 1995.
5	C. Sarvasanu	M. Cretu	L. Nita	Capteur proximétrique bidimensionnel	Buletinul Institutului Politehnic din Iași, Tomul XLI(XLV)	Fasc. 5 sectia III, 1995.
4	C. Sarvasanu	L. Nita		Determination des paramètres essentiels du transducteur ultrasonore à partir du modèle de MASON	Buletinul Institutului Politehnic din Iași, Tomul XLI(XLV)	Fasc. 5 sectia III, 1995.
3	L. Nita	C. Sarvasanu		L'utilisation de la Transformation de	Buletinul Institutului Politehnic din Iași, Tomul XLI(XLV)	Fasc. 5 sectia III, 1995.

				Fourier Discrete dans l'analyse des signaux		
2	L. Nita	C. Sarmas anu		La mesure du coefficient de distorsion de la tension d'alimentation avec energie electrique	Buletinul Institutului Politehnic din Iasi, Tomul XLI(XLV)	Fasc. 5 sectia III,1995.
1	M.Cretu	L.Nita	C.Sarmasanu	Systeme pour gestion de puissance et d'energie a les consommateurs	Buletinul Institutului Politehnic din Iasi, Tomul XLI(XLV)	Fasc. 5 sectia III,1995.

G. Lucrări științifice publicate în reviste din străinătate.

2	Parizad Avari, Yenny Leal, Pau Herrero, Marzena Wos, Narvada Jugnee, Maria Arnoriaga-Rodriguez, Maria Thomas, Chengyuan Liu, Quim Massana, Beatriz Lopez, Clare Martin, J. M. Fernandez-Real, Nick Oliver, Merce Fernandez, and Monika Reddy, L. Nita	Safety and feasibility of the PEPPER adaptive bolus advisor and safety system; a randomized control study	Diabetes Technology & Therapeutics	2020
1	Radu Gabriel Bozomitu, L. Nita, Vlad Cehan, Ioana Dana Alexa, Adina Carmen Ilie, Alexandru Păsărică, Cristian Rotariu	A New Integrated System for Assistance in Communicating with and Telemonitoring Severely Disabled Patients	Sensors — Open Access Journal, Sensors (ISSN 1424-8220; CODEN: SENSC9)	2019

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

4	L. Nita	C. Sarmas anu	L.Breniuc	Sistem pentru calibrarea traductoarelor de turatie	Buletinul Stiintific al Universitatii din Pitesti, Seria : METROLOGIE, SISTEME DE MASURARE SI INGINERIA CALITATII	Nr. 4, Pitesti, 2003
3	L. Nita	C. Sarmas anu	L.Breniuc	Sistem pentru identificarea motoarelor de curent continuu	Buletinul Stiintific al Universitatii din Pitesti, Seria : METROLOGIE, SISTEME DE MASURARE SI INGINERIA CALITATII	Nr. 4, Pitesti, 2003
2	L. Nita	C. Sarmas anu	C.Fosalau	Sistem de măsurare real-time in Windows	Buletinul Stiintific al Universitatii din Pitesti, Seria : METROLOGIE, SISTEME DE MASURARE SI INGINERIA CALITATII	Nr. 2-3 , Pitesti, 2002
1	M.Cretu	St.Fratila	L.Nita	Cercetări privind realizarea unui sistem numeric de măsurare pentru determinarea parametrilor de calitate a energiei electrice	Revista Energetica	1997,10

I. Lucrări științifice publicate în volumele conferințelor.

Articole tipărite in volumele conferințelor internaționale din România

18	L. Nita				Unique Database for Self-Management Disease Applications	IEEE International Conference on e-Health and Bioengineering EHB 2019, Iasi, Romania, 21-Nov-2019	2019	Iasi, Romania
17	Vlad Ghizdovat, L. Nita, Paul Hergehelegiu ; Simona Caraiman ; Alina Capitanu ; Carmen Mihai ; Cati Stolniceanu ; Jalloul Wael ; Delia Ciobanu ; Lidia Ionescu ; Irena-Cristina Grierosu ; Cipriana Stefanescu				USMED and Surgery Assist: IMAGO MOL Cluster Biomedical Solutions to Improve Patient Imaging Availability and Noninvasive Diagnosis	IEEE International Conference on e-Health and Bioengineering EHB 2019, Iasi, Romania, 21-Nov-2019	2019	Iasi, Romania
16	L. Nita				Cloud Platform for Medical Data Acquisition and Physician-Patient Interconnection	EPE 2018 - INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2018), Iasi, Romania, 18-Oct-2018	2018	Iasi, Romania
15	L. Nita				Software application for artistic mediation of artworks	Muzeele secolului al XXI-lea. Solutii inovative privind medierea artistica in muzee si avantajele noilor tehnologii in amenajarea muzeala.	Sep 4-5 2017	Iasi, Romania
14	L. Nita	Ferran Torrent-Fontbona			Cloud Based Acquisition System for Diabetic Data	22nd IMEKO TC4 Symposium	Sep 14-15 2017	Iasi, Romania
13	L. Nita				Interconnection of Medical Data Acquisition Systems	EPE - The International Conference of Electrical and Power Engineering	Oct 20-22 2016	Iasi, Romania
12	L. Nita	C. Rotariu			Building sentences for communicating with disabled patients	The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015	November 19-21, 2015	Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania
11	Sinica Alboai	L. Nita	C. Stefanescu		Executable Choreographies for Medical Systems Integration and Data Leaks Prevention	The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015	November 19-21, 2015	Grigore T. Popa University of Medicine and Pharmacy,

								Iași, Romania
10	Nita L.				The future of Telemedicine in NE region of Romania	International MRI Summer School	August 2-6, 2014	Iasi, Romania
9	Nita L.	Hariton A.			Clinician application for diabetic patients monitoring	Proceedings of the 7th Conference on Electrical and Power Engineering EPE 2012	October 25-27, 2012	Iasi, Romania
8	Nita L.	Cretu M.	Hariton A.		System for remote patient monitoring and data collection with applicability on e-Health applications	The International Conference Advanced Topics in Electrical Engineering ATEE	May 12- 14, 2011	București Romania
7	Anam aria Harit on	Lucian Nita	Mihai Cretu	Salcian u Monica	Patient telemonitoring application for diabetes	EPE - The International Conference of Electrical and Power Engineering	28-30 Oct 2010	Iasi, Romania
6	Anam aria Harit on	Lucian Nita	Mihai Cretu	Salcian u Monica	Microcontrollers and radio communication system	EPE - The International Conference of Electrical and Power Engineering	28-30 Oct 2010	Iasi, Romania
5	L.Nit a	C.Dosof tei	C.Donci u	C.Sarm asanu	Informatic System of Interactive Training for Virtual Laboratory Type Application	The 15th IMEKO TC-4 International Symposium “ Novelties in Electrical Measurements and Instrumentation ”	Septem ber 18- 22, 2007	Iasi, Romania
4	C.Sar masa nu	E.Vrem era	L.Nita	V.David	Virtual instrument for comfort factor measurement	The 15th IMEKO TC-4 International Symposium “ Novelties in Electrical Measurements and Instrumentation ”	Septem ber 18- 22, 2007	Iasi, Romania
3	M.Po boron iuc	L.Nita	C.Petres cu		Control techniques for neuroprostheses	Proceedings of the 5 th International Biomedical Engineering Conference INGIMED 2004	Novem ber 11- 12 ,2004	Bucharest, Romania
2	M.Po boron iuc	C.Popes cu	L.Nita		Reducerea deficientelor motorii la pacientii cu leziuni la nivelul sistemului nervos central pe baza stimulării electrice functionale	Primul simpozion al Societatii Nationale de Neurostiinte “Investigarea electrofiziologica a sistemului nervos”	Octomb rie 8-10, 2004	Bucuresti, Romania
1	L.Nit a	C.Sarm asanu	C.Fosal au		Building measurement systems on Windows platforms	METSIM’2002 International Conference on METROLOGY&ME ASUREMENT SYSTEMS	October 30-31, 2002	Bucharest, Romania

Articole publicate in volumele conferințelor internaționale organizate în străinătate

30	L.Nita	Multimodal Telemedicine Platform for Remote Consultation, Messaging and Automated Medical Documentation	11th International Conference on Electromechanical and Power Engineering (SIELMEN 2025)	Oct 2025	Chisinau, Rep. Moldova
29	Duce, David A. and Martin, Clare and Russell, Alex and Brown, Dan and Aldea, Arantza and Alshaigy, Bedour and Harrison, Rachel and Waite, Marion and Leal, Yenny and Wos, Marzena and Fernandez-Balsells, Mercè and Real, José Manuel Fernández and López, Beatriz and Massana, Joaquim and Avari, Parizad and Herrero, Pau and Jugnee, Narvada and Oliver, Nick and Reddy, Monika, L. Nita	Visualizing Usage Data from a Diabetes Management System	Computer Graphics and Visual Computing CGVC 2020, London, UK, 10-Aug-2020	10-Aug-2020	London, UK
28	Parizad Avari, Yenny Leal, Marzena Wos, Narvada Jugnee, Maria Thomas, Quim Massana, Beatriz Lopez, L. Nita, Clare Martin, Pau Herrero, Nick Oliver, José Manuel Fernández-Real, Monika Reddy, Mercè Fernández-Balsells	Efficacy and safety of the Patient Empowerment through Predictive Personalised Decision Support (PEPPER) system: an open-label randomised controlled trial	ATTD 2020 - The 13th International Conference on Advanced Technologies & Treatments for Diabetes,	19-Feb-2020	Madrid, Spain,
27	Pau Herrero, Joaquim Massana, Yenny Leal, L. Nita, Parizad Avari, David Duce, Arantza Aldea, Pantelis Georgiou, José Manuel Fernández-Real, Mercedes Fernández-Balsells, Nick Oliver, Beatriz López, Clare Martin	The PEPPER System Application Program Interface	ATTD 2020 - The 13th International Conference on Advanced Technologies & Treatments for Diabetes	19-Feb-2020	Madrid, Spain,
26	L.Nita	Cloud system for diabetic data analysis	11th International Conference on Electromechanical and Power Engineering (SIELMEN 2017)	12-13 Oct 2017	Chisinau, Rep. Moldova
25	C.Martin, A. Aldea, D. Brown, D. Duce, J.M. Fernández-Real, P. Gay,P. Georgiou, R. Harrison, P. Herrero, B. López, Y.Leal, L. Nita, P. Pesl, R. Petite, M. Reddy, J. Shapley, F. Torrent-Fontbona, M. Waite, M. Wos and N. Oliver	Personalised Clinical Decision Support Using Real-Time Data	International Conference on Advanced Technologies & Treatments for Diabetes (ATTD). Abstracts published in: Diabetes Technology & Therapeutics, Volume 19, Supplement 1, 2017, pp. A-64.	Feb, 15-18, 2017	Paris, France

24	M. Wos, MD, Y. Leal, PhD, M. Fernández-Balsells, PhD, C. Martin, PhD, P. Herrero, PhD, B. López, PhD, W. Ricart, PhD, L. Sojo-Vega, MD, E. Esteve, PhD, E. Loshuertos, MSc, J. Shapley, PhD, L. Nita, PhD, J.M. Fernández-Rea				Avaluació d'un Sistema personalitzat de suport de decisions d'autogestió de la DM1.	XIVè Congrés Associació Catalana de Diabetes	March 2017	Barcelona, Spain
23	Nita L.	Alboaie L.			System for medical data acquisition and patient health state telemonitoring	10th International Conference and Exhibition on Electromechanical and Power Systems SIELMEN 2015	8-9 Oct 2015	Chisinau, Rep. Moldova
22	Nita L.	Bozomitu R.	Cehan V.,	Rotariu C., Lupu R.	Software for a Bidirectional Communication System for Neurolocomotor Disabled Patients	38th International Spring Seminar on Electronics Technology "Novel Trends in Electronics Manufacturing"	6-10 May 2015	Eger, Hungary
21	Jens Ulrik Poulsen	Rolf Johansson	Eric Renard	Lucian Nita	A Diabetes Management System Empowering Patients to Reach Optimised Glucose Control: From Monitor to Advisor. Invited Paper.	32nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society "Merging Medical Humanism and Technology"	August 31 - September 4, 2010	Buenos Aires, Argentina
20	Anamaria Hariton	Lucian Nita	Mihai Cretu		E-multitask server in virtual laboratory application	IMEKO TC4 Symposium	8-10 Sept 2010	Kosice, Slovakia
19	B. Mustata	L. Nita			Optimized data synchronization for mobile e-health platforms	eChallenges e-2009	21 - 23 October 2009	Istanbul, Turcia
18	M. Poboniuc	D. Popescu	L. Nita		Control of electrical stimulation to support standing exercises for persons with spinal cord injury	Proceedings of the 3rd European Medical & Biological Engineering Conference - EMBEC'05	November 20-25 2005	Prague, Czech Republic
17	C. Sarmasanu	L. Nita			The Measurement of confort index	5th International Conference on Electromechanical and power systems, SIELMEN 2005	06-08 October, 2005	Chişinău, Republica Moldova
16	C. Sarmasanu	Al. Salceanu	L. Breniuc	L. Nita	O evaluare metrologico-económico a efectelor introducerii tehnicii de calcul	A treia Conferință Internațională de Sisteme Electromecanice și energetice, SIELMEN 2001	4-5 Octombrie, 2001	Chişinău, Republica Moldova
15	L. Nita	C. Lazar	O. Vasilachi		Multichannel power monitoring system	IFAC Symposium on Power Plants & Power System Control	April 26-29, 2000	Brussels, Belgium

14	L.Breniuc	M.Cretu	L.Nita		Possibilities to Improve the Measuring Performances of Impedances in a Wide Frequency Range	XVI IMEKO WORLD CONGRESS IMEKO 2000	Sept.25-28, 2000	Vienna, Austria
13	L.Nita	C.Lazar	M.Poboroniuc		Multichannel system for power measurement and energy quality analysis	The 5 th International Conference Electrical Power Quality and Utilisation,EPQU '99	september, 15-17, 1999	Cracow, Poland
12	C.Sarmasanu	L.Nita	E.Vremea		Asupra unor posibilități de interfațare a senzorilor de presiune piezoelectrice	A doua Conferință Internațională de Sisteme Electrotehnice, SIELMEC '99	8-9 Octombrie, 1999	Chisinau, Republica Moldova
11	C.Sarmasanu	L.Nita	M.Cretu	O.Postolache	A digital system for power factor measurement	The 4 th International Conference Electrical Power Quality and Utilisation,EPQU '97	september, 23-25,1997	Cracow, Poland
10	O.Postolache	M.Cretu	C.Sarmasanu	L.Nita	Instantaneous phase detection as an artificial neural network application	The 4 th International Conference Electrical Power Quality and Utilisation,EPQU '97	september, 23-25,1997	Cracow, Poland
9	L.Nita	C.Sarmasanu	O.Postolache		A multichannel power measurement system	The 4 th International Conference Electrical Power Quality and Utilisation,EPQU '97	september, 23-25,1997	Cracow, Poland
8	C.Sarmasanu	M.Cretu	L.Nita		Posibilități de dilatare și comprimare a scării în măsurarea fuzzy-simbolică a proximității	Prima Conferință Internațională de Sisteme Electrotehnice, SIELMEC '97, Vol.II	16-17 Octombrie, 1997	Chisinau, Republica Moldova
7	L.Nita	C.Sarmasanu			Măsurarea frecvenței, perioadei și fazei semnalelor prin utilizarea unei interfete de achiziții de date	Prima Conferință Internațională de Sisteme Electrotehnice, SIELMEC '97, Vol.II	16-17 Octombrie, 1997	Chisinau, Republica Moldova
6	L.Nita	C.Sarmasanu			O soluție de îmbunătățire a preciziei rezultatelor obținute prin transformare Fourier discretă	Prima Conferință Internațională de Sisteme Electrotehnice, SIELMEC '97, Vol.II	16-17 Octombrie, 1997	Chisinau, Republica Moldova
5	C.Sarmasanu	M.Cretu	L.Nita	O.Postolache	Senzori de proximitate fuzzy-simbolici. Generarea reperelor scării	Prima Conferință Internațională de Sisteme Electrotehnice, SIELMEC '97, Vol.II	16-17 Octombrie, 1997	Chisinau, Republica Moldova
4	M.Cretu	C.Sarmasanu	C.Fosala	L.Nita	A digital instrument for the measurement of power quality in three phase systems	The X Polish National Conference, "Applications of Microprocessors in Automatic Control and Measurements	October 17-18 1996	Warsaw, Poland
3	L.Nita				Metoda numerica de masurare a puterii electrice	Simpozionul International "ELECTRO '96 "	Octombrie 16-17,1996	Chisinau, Republica Moldova

2	C.Sarmasanu	M.Cretu	L.Nita		Asupra unei metode de măsurare a debitului in conductele de diametre mari aferente instalațiilor energetice	Simpozionul Internațional ELECTRO '96, Vol.I	16-17 Octombrie ,1996	Chisinau, Republica Moldova
1	L.Nita	M.Cretu	C.Sarmasanu		Cercetări privind măsurarea parametrilor regimului deformant si nesimetric în rețelele electrice	Simpozionul Internațional ELECTRO '96, Vol.I	16-17 Octombrie ,1996	Chisinau, Republica Moldova

Lucrări publicate în volumele unor conferințe naționale

9	L. Nita				Sistem de interconectare intre unități medicale – USMED	DIAGNOSTICUL ȘI MANAGEMENTUL INTERDISCIPLINAR AL PACIENȚILOR CU AVC ACUT, Iasi, Romania, 29-Oct-2019	2019	Iasi, Romania
8	L. Nita				Software application for artistic mediation of artworks	Muzeele secolului al XXI-lea. Soluții inovative privind medierea artistica in muzee si avantajele noilor tehnologii in amenajarea muzeala., Iasi, Romania, 04-Sep-2017	2017	Iasi, Romania
7	L. Nita				Sistem Integrat pentru managementul datelor medicale	Simpozionul Național IMAGO-MOL – Imagistica Biomedicală în Regiunea de Nord-Est: Trecut, Prezent și Viitor	2013	Iasi, Romania
6	L. Nita				Sistem Unic de Management a Datelor Medicale - USMED	IMAGO-MOL – Conferinta de lansare a proiectului USMED	2014	Iasi, Romania
5	L. Niță	L. Breniuc	C.Sărmășanu		Metodă soft pentru îmbunătățirea preciziei convertoarelor numeric analogice	Sesiunea științifică jubiliară "80 de ani de învățământ electrotehnic la Iași" Vol. I pag. 131-134	1992	Iasi, Romania
4	L. Breniuc	L. Nita			Posibilitati de masurare numerica a impedantelor utilizand micro sisteme de masura	Sesiunea științifică jubiliară "80 de ani de învățământ electrotehnic la Iași"	1992	Iasi, Romania
3	L. Nita	L. Breniuc			Algoritm pentru masurarea numerica a impedamentelor	Sesiunea științifică jubiliară "80 de ani de învățământ electrotehnic la Iași"	1992	Iasi, Romania

2	M. Cretu	L. Nita	N.Damean		Termometru numeric cu linearizare globala prin soft	Sesiunea stiintifică jubiliară "80 de ani de învățământ electrotehnic la Iași"	1992	Iasi, Romania
1	M. Cretu	L. Nita	N.Damean		Stand pentru realizarea modelarii matematice a unei termoreziste	Sesiunea stiintifică jubiliară "80 de ani de învățământ electrotehnic la Iași"	1992	Iasi, Romania

J. Invenții.

K. Contracte de cercetare/granturi.

	Programul/Proiectul	Funcția	Valoare	Perioada: de la-până la
12	Aplicație pentru managementul dialogului medic-pacient Programul Regional Nord-Est 2021-2027, Prioritatea PRNE_P1 O regiune mai competitivă, mai inovativă Apel: Sprijin pentru dezvoltarea capacității de inovare a IMM, prin proiecte demonstrative ale IMM proof-of-concept., PR/NE/2025/P1/RSO1.1/1/3.3 - Proof-of-concept	Director	200000 Euro	2025-2028
11	DIGITAL INNOVATION ZONE EDIH - MANUFACTURING & SMART HEALTH for better business, life and health in the North East Romania region, Project number: 101083392, Call: DIGITAL-2021-EDIH-01 Topic: DIGITAL-2021-EDIH-INITIAL-01 Type of action: DIGITAL-SIMPLE Service: CNECT/A/04 Project starting date: fixed date: 1 October 2022 Project duration: 36 months	Responsabil	3755922 EURO	2022-2025
10	REVERT – targeted therapy for advanced colorectal cancer patients , 848098 — REVERT — H2020-SC1-BHC-2018-2020/H2020-SC1-2019-Two-Stage-RTD, valoare partener: 44750 Euro	Responsabil	44750 Euro	2019-2022
9	ECOSISTEM MULTIFUNCTIONAL PENTRU INTEGRAREA SERVICIILOR MEDICALE DE TIP “SELF-MANAGEMENT DISEASE” (EMIM)	Director	400500 Euro	2017-2020
8	PEPPER - Patient Empowerment through Predictive Personalised decision support H2020-PHC-2015-single-stage	Responsabil	3780715 EURO	2016-2019
7	<i>SISTEM INOVATIV DE MEDIERE ARTISTICĂ INTERACTIVĂ DESTINAT VALORIFICĂRII PATRIMONIULUI DE ARTĂ AL MUZEELOR DIN ROMÂNIA, SIMAP</i> <i>Proiecte Colaborative de Cercetare Aplicativă PN-II-PT-PCCA-2013-4</i>	Responsabil	2058777 RON	2014-2016
6	<i>Sistem integrat de asistare pentru comunicare și telemonitorizare destinat persoanelor cu handicap neurolocomotor sever (SIAC)</i> <i>Proiecte Colaborative de Cercetare Aplicativă PN-II-PT-PCCA-2013-4</i>	Responsabil	1675000 RON	2014-2016

5	<i>Creșterea competitivității Clusterului Regional Inovativ EURONEST IT&C Hub și stimularea interacțiunilor dintre membri pentru dezvoltarea de produse și servicii de înaltă tehnologie”, cod SMIS 49786</i> Programul Operațional Sectorial „Creșterea Competitivității Economice (POS CCE) 2007-2013”- co-finanțat din Fondul de Dezvoltare Regională -Axa Prioritară 1 „Un sistem de producție inovativ și ecoeficient”Domeniul major de intervenție D1.3 „Dezvoltarea durabilă a antreprenoriatului” Operațiunea „Sprijin pentru integrarea întreprinderilor în lanțurile de furnizori sau clustere”	Responsabil	2150300 RON	2014-2015
4	<i>Consolidarea instituțională și creșterea vizibilității Clusterului de Imagistica Medicală IMAGO-MOL, cadru-suport pentru creșterea capacității de Cercetare Dezvoltare Inovare a membrilor și a competitivității IMM-urilor în domeniu din România - IMAGO MOL -</i> Programul Operațional Sectorial „Creșterea Competitivității Economice (POS CCE) 2007-2013”- co-finanțat din Fondul de Dezvoltare Regională -Axa Prioritară 1 „Un sistem de producție inovativ și ecoeficient”Domeniul major de intervenție D1.3 „Dezvoltarea durabilă a antreprenoriatului” Operațiunea „Sprijin pentru integrarea întreprinderilor în lanțurile de furnizori sau clustere”	Responsabil	2647458 RON	2014-2015
3	<i>AMI4EUROPE: Advanced Medical Imaging for Europe</i> Proiect FP7 https://www.youtube.com/watch?v=AhZWILD73ag	Responsabil	4000000 EUR	2010-2014
2	<i>Personal Glucose Predictive Diabetes Advisor</i> Proiect FP7 http://www.diadvisor.eu/index.php	Responsabil	8000000 EUR	2008 –2012
1	<i>Utilizarea tehnicilor microelectronice în generarea stimulilor de natură nervoasă și recuperarea neuromotorie a persoanelor cu leziuni la nivelul sistemului nervos central</i> Proiect PNCDI- VIASAN	Director	80.000 RON	2004 –2006

L. Premii, distincții.

M. Alte realizări semnificative.

Data: 26.02.2026

Nume, prenume: Nita Lucian

Semnătura

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Marius Andrei OLARIU

A. Teza de doctorat

„Contribuții privind asigurarea calității micro și nanomaterialelor pe baza analizei sarcinii electrice spațiale” susținută în data de 13.08.2009 și pe baza căreia s-a conferit titlul de doctor în inginerie electrică conform Ordinului Ministrului MECT nr. 4698 din 14. 08.2009, conducător de doctorat Prof.Dr.Ing. Romeo Cristian Ciobanu.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

B1. Marius Andrei Olariu, Materials for Electrical Engineering, Lambert Academic Publishing, Germany, ISBN 978-3-659-87805-3, 2016

B2. Marius Andrei Olariu, Fabrication of Flexible Screen-Printed Dielectrophoretic Devices, ISBN 978-613-9-45090-9, Lambert Academic Publishing, 2019

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

C1. Marius Andrei Olariu, Romeo Cristian Ciobanu, Sebastian Teodor Arădoaei, CERCETĂRI PRIVIND ASIGURAREA CALITĂȚII MICRO- ȘI NANOMATERIALELOR PE BAZA ANALIZEI SARCINII ELECTRICE SPAȚIALE, ISBN 978-606-520-675-5, Editura PIM (2009).

C2. Sebastian Teodor Arădoaei, Romeo Cristian Ciobanu, Marius Andrei Olariu, Gabriela Constantinescu, CERCETĂRI PRIVIND ANALIZA CALITĂȚII MATERIALELOR ELECTROIZOLANTE PRIN METODA SPECTROSCOPIEI DIELECTRICE, ISBN 978-606-520-674-8, Editura PIM Iasi (2009).

C3. Marius Andrei Olariu, Indrumar de laborator pentru Materiale pentru inginerie electrica, ISBN 978-606-13-3005-8, 107 pagini, 2016.

C4. Marinela Costel Temneanu, Marius Andrei Olariu, Indrumar de laborator pentru Materiale pentru inginerie electrica – partea II, 110 pagini, 2019 (suport dicatic), ISBN: 978-606-13-5396-5, Editura PIM

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

F1. Mirela Airimioaei, Vlad A.Lukacs, Isabelle Lisiecki, Patricia Beaunier, Juliette Blanchard, Doina Lutic, Sorin Tascue, Petronel Postolache, Cristina E.Ciomaga, Marius Olariu, Liliana Mitoseriu, Biomimetic tubular nickel oxide structures: Effect of the synthesis parameters on their structural and functional properties, surface-related applications, Journal of Alloys and Compounds, <https://doi.org/10.1016/j.jallcom.2019.152543>, 2019 (apare în volumul 816, Martie 2020), IF=4.175

F2. (Prim autor 1) Olariu, M., Arcire, A. & Plonska-Brzezinska, M.E., Controlled Trapping of Onion-Like Carbon (OLC) via Dielectrophoresis, Journal of Electronic Materials (2016). doi:10.1007/s11664-016-4870-1, IF=1,579

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F3. (Prim autor 2) Olariu, M. A.; Hamciuc, C.; Neacsu, O. M.; et al., MICROWAVE DIELECTRIC PROPERTIES OF POLYIMIDE COMPOSITES BASED ON TiO₂ NANOTUBES

AND CARBON NANOTUBES, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES Volume: 14 Issue: 1 Pages: 37-44, IF=0,673
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F4. (Prim autor 3) Olariu, M.; Arcire, A., Electrostimulated Desorption Hydrogen Sensor Based on Onion-Like Carbons as a Sensing Element, Journal of Electronic Materials, Volume: 47, Issue: 11, Pages: 6476-6483, NOV 2018, IF=1,579
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F5. (Prim autor 4) M. A. Olariu, Corneliu Hamciuc, Lidia Okrasa, Elena Hamciuc, Lubomir Dimitrov, Yuri Kalvachev, Electrical properties of polyimide composite films containing TiO₂ nanotubes, 2015, DOI: 10.1002/pc.23851, IF=2,004
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F9. Corneliu Sergiu Stan, Marcel Popa, Marius Olariu, Marius Sebastian Secula, Synthesis and Characterization of PSSA-Polyaniline Composite with an Enhanced Processability in Thin Films Open Chemistry. Volume 13, Issue 1, ISSN (Online) 2391-5420, DOI: 10.1515/chem-2015-0057, December 2014, IF=1,425
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F10. Cetiner, S ; Olariu, M ; Sarac, AS, FABRICATION OF POLY(ACRYLONITRILE-CO-VINYL ACETATE)-POLY(N-METHYL PYRROLE) COMPOSITE NANOFIBERS, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, Volume: 8 Issue: 2 Pages: 677-683, Published: APR-JUN 2013, IF= 0.673
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F11. Suat Cetiner, Marius Olariu, Romeo Ciobanu, Hale Karakas, Fatma Kalaoglu and A. Sezai Sarac, Polypyrrole/polyacrylonitrile composite films: Dielectric, spectrophotometric and morphologic characterization, FIBERS AND POLYMERS, Volume: 11, Issue: 6, Pages: 843-850, Published: SEP 2010, ISSN: 1229-9197, DOI: 10.1007/s12221-010-0843-9, IF=1,022
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F12. Suat Cetiner, Hale Karakas, Romeo Ciobanu, Marius Olariu, N. Ugur Kaya, Cem Unsal, Fatma Kalaoglu, A. Sezai Sarac,, Polymerization of pyrrole derivatives on polyacrylonitrile matrix, FTIR-ATR and dielectric spectroscopic characterization of composite thin films, Source: SYNTHETIC METALS, Volume: 160, Issue: 11-12, Pages: 1189-1196, Published: JUN 2010, ISSN: 0379-6779, DOI: 10.1016/j.synthmet.2010.03.007, IF=2,526
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- F19. Effect of selective distribution of MWCNTs on the solid-state rheological and dielectric properties of blends of PMMA and LDPE, C Roman, M García-Morales, MA Olariu, T McNally, Journal of Materials Science 55 (20), 2020, 8526-8540, IF=3,442
- F20. Preliminary Insights into Electro-Sensitive Ecolubricants: A Comparative Analysis Based on Nanocelluloses and Nanosilicates in Castor Oil, M García-Morales, SD Fernández-Silva, C Roman, MA Olariu, MT Cidade, Miguel A Delgado, Processes 8 (9), 1060, 2020, IF=2,753
- F21. Turcan, I.; Caras, I.; Schreiner, T.G.; Tucureanu, C.; Salageanu, A.; Vasile, V.; Avram, M.; Tincu, B.; Olariu, M.A. Dielectrophoretic and Electrical Impedance Differentiation of Cancerous Cells Based on Biophysical Phenotype. Biosensors 2021, 11, 401. 2021, <https://doi.org/10.3390/bios11100401>, IF=5.519
- F22. Marius Andrei Olariu, Corneliu Hamciuc, Mihai Asandulesa, Elena Hamciuc, Elena-Luiza Epure, Violeta Tsakiris, Gabriela Lisa, Study on highly thermostable low-k polymer films based on fluorene-containing polyetherimides, POLYMER ENGINEERING AND SCIENCE, Volume61, Issue10, Page2639-2652, 2021, DOI10.1002/pen.25792, IF=2.428
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- F24. Astanei, D.; Burlica, R.; Cretu, D.-E.; Olariu, M.; Stoica, I.; Beniuga, O. Treatment of Polymeric Films Used for Printed Electronic Circuits Using Ambient Air DBD Non-Thermal Plasma. Materials 2022, 15, 1919. <https://doi.org/10.3390/ma15051919> (IF=3.748)
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- F26. Ioana Radu, Ina Turcan, Alexandru V. Lukacs, Tiberiu Roman, Georgiana-Andreea Bulai, Marius Andrei Olariu, Ioan Dumitru, Aurel Pui, Structural, dielectric and gas sensing properties of gadolinium (Gd³⁺) substituted zinc-manganese nanoferrites, Polyhedron, Volume 221, 2022, 115893, ISSN 0277-5387, <https://doi.org/10.1016/j.poly.2022.115893> (IF=2.975)
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- F28. Flame-Resistant Poly (vinyl alcohol) Composites with Improved Ionic Conductivity, D Serbezeanu, C Hamciuc, T Vlad-Bubulac, AM Ipate, G Lisa, I Turcan, ..., Membranes 13 (7), 636, 2023
- F29. Improving Printability of Polytetrafluoroethylene (PTFE) with the Help of Plasma Pre-Treatment, MA Olariu, R Herrero, DG Astanei, L Jofré, J Morentin, TA Filip, R Burlica, Polymers 15 (16), 3348 (IF=5.0), 2023
- F30. Screen-printed interdigitated microelectrodes employment in dielectrophoretic manipulation of MWCNTs, MA Olariu, TA Filip, CA Peptu, I Turcan, Microchimica Acta 190 (11), 453, 2024 (IF=5.7)

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G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

J. Invenții

K. Contracte de cercetare

K1. Development of implantable bio-sensors for neurotransmitters evaluation, based on electrochemically coated conjugated polymer composites on carbon nano-porous structures / CarPolSense, PNII Capacitati M3, 567/2012, 2012-2013, Buget TUIASI – 26578lei

K2. Explorarea proprietăților electrice și magnetice ale unei noi clase exotice de materie cuantică: izolatorii topologici (QuanTop), Bilateral Romania-China, 45BM/2016, 2016-2017 (15 luni) – Buget TUIASI – 17401 lei

K3. Tehnologie de fabricare a filmelor conductive anizotropice nanostructurate cu arhitectură adaptabilă sub acțiunea câmpului electromagnetic, pentru aplicații electronice și biomedicale (cod COFUND-MANUNET III-AniConFilm-1), ctr. 18/2018, 2018-2020 Buget TUIASI - 551100 lei

- K4. DEZVOLTAREA PORTOFOLIULUI DE PRODUSE INOVATIVE AL SC CAOM SA PRIN TRANSFERUL TEHNOLOGIC AL UNEI MARCI TENSOMETRICE CU SENSIBILITATE RIDICATĂ, PNIII-P2-2.1-PTE, ctr. 39PTE/2016, 2016-2018, buget TUIASI - 578583 lei
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L. Premii, distincții

M. Alte realizări semnificative

Data,
13.03.2026

Prof. dr. ing. Marius Andrei OLARIU

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Pavel Ionel

A. Teza de doctorat

1. „Cercetări privind supravegherea câmpurilor magnetice generate de sistemele de alimentare cu energie electrică”, anul 2019, Universitatea Tehnică „Gheorghe Asachi” din Iași, domeniul inginerie electrică, conducător de doctorat: prof. univ. dr. ing. David Valeriu.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

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I. Lucrări științifice publicate în volumele conferințelor

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2. Luncă Eduard, Vornicu Silviu, Pavel Ionel, Andrușcă Mihai, Measurement and Numerical Simulation of the Low-Frequency Electric Field Generated by an Overhead Power Line, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), 20-22 October 2022, Iasi, Romania, pp. 719-722, DOI: 10.1109/EPE56121.2022.9959872, (indexată în IEEE Xplore, SCOPUS).
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 7. Pavel Ionel, David Valeriu, Donose Costel, A measurement system for the automatic survey of the low frequency magnetic field, EPE 2018 - Proceedings of the 2018 10th International Conference and Expositions on Electrical And Power Engineering, 18-19 October 2018, Iași, România, pages: 568-571, ISBN: 978-153865062-2, DOI: 10.1109/ICEPE.2018.8559761, (indexată în IEEE Xplore, Web of Science, SCOPUS).
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 9. Donose Costel, Schreiner Cristina-Mihaela, Podaru Alexandru-Constantin, Pavel Ionel, Virtual monitoring of electrical circuitry, 2017 11th International Conference on Electromechanical and Power Systems, SIELMEN 2017 – Proceedings 2017-January, Iasi, Romania, pages: 437-440, ISBN: 978-153861846-2, DOI: 10.1109/SIELMEN.2017.8123367, (indexată în IEEE Xplore, Web of Science, SCOPUS).
 10. Donose Costel, Schreiner Cristina-Mihaela, Podaru Alexandru-Constantin, Pavel Ionel, Actuating and controlling electrical circuits by means of virtual instruments, 2017 11th International Conference on Electromechanical and Power Systems, SIELMEN 2017 – Proceedings 2017-January, Iasi, Romania pages: 441-444, ISBN: 978-153861846-2, DOI: 10.1109/SIELMEN.2017.8123371, (indexată în IEEE Xplore, Web of Science, SCOPUS).
 11. Pavel Ionel, David Valeriu, On the survey of the magnetic fields in power distribution substations, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE 2016), 20-22 October, 2016, Iasi, Romania, pages. 413 – 417, ISBN: 978-150906129-7, DOI: 10.1109/ICEPE.2016.7781373, (indexată în IEEE Xplore, Web of Science, SCOPUS);
 12. Ionel Pavel, Valeriu David, Silviu Ursache, On a Survey of the Magnetic Field in a Commercial Area, 22nd IMEKO TC4 International Symposium & 20th International Workshop on ADC Modeling and Testing, 14-16 September, 2017, Iasi, Romania, pages: 300-304, ISBN: 978-151084976-1, DOI: 10.1109/ICEPE.2018.8559645, (indexată în IEEE Xplore, SCOPUS);
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J. Invenții

1. Valeriu David, Eduard Luncă, Ionel Pavel, Supravegherea automată a câmpului magnetic cu detecția și caracterizarea câmpurilor tranzitorii, nr. RO133581 din 30.07.2024

K. Contracte de cercetare

1. Proiect de tip POCU/993/6/13/153437, perioada 15.10.2022 – 30.10.2023, Titlu: Rețea de excelență în cercetare și inovare aplicativă pentru programele de studii doctorale și postdoctorale/InoHubDoc, Coordonator: TUIASI, UPT, cod SMIS: 153437.
2. Proiect de tip POR/2019/1/1.1/OS 1.2/1, perioada 04.01.2022 – 04.09.2023, Titlu: Sistem de avertizare seismică cu deblocarea automată a ușilor de intrare prevăzute cu interfon, membru în echipa de implementare, Director de proiect: prof.dr.ing. Temneanu Marinela Costel, cod SMIS 137414.

L. Premii, distincții

1. „Metodă de supraveghere automată a câmpului magnetic cu detecția și caracterizarea câmpurilor tranzitorii”, David Valeriu, Luncă Costel-Eduard, Pavel Ionel, premiat cu medalia de aur la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii EURO POLITEHNICUS 2024.

M. Alte realizări semnificative

Data,

Ș.I. dr. ing. Pavel Ionel

Lista de lucrări în domeniul de studii universitare de licență "Inginerie electrică"

Numele și prenumele: PĂULEȚ MARIUS VALERIAN

A. Teza de doctorat.

„Contribuții în domeniul tehnicilor de măsurare distribuite și teletransmisiei bidirectionale de date”, , susținută în data de 09.04.2008, Universitatea Tehnică "Gheorghe Asachi" din Iasi, domeniul Inginerie Electrică, conducător de doctorat Prof. dr. ing. Crețu Mihai

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCIS.

1. **Păuleț Marius Valerian**, *Sisteme distribuite de monitorizare și teletransmisia bidirecțională de date*, Editura PIM, Iași, 2019, pag.214, ISBN 978-606-13-5320-0, an apariție 2019
2. **Păuleț Marius Valerian**, *Sisteme distribuite de monitorizare.- Îndrumar de laborator*, Editura PIM, Iași, pag., 142, ISBN 978-606-13-8811-0, an apariție 2024
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5. **Păuleț Marius Valerian**, *Tehnologii WEB - Note de curs*, Editura PIM, pag. 134, ISBN 978-606-13-8809-7, an apariție 2024
6. Oana Neacșu, Alexandru Sălceanu, **Marius Păuleț**, *Software pentru birotică. Teorie și aplicații*, Editura PIM, Iași, pag. 212, ISBN 978-606-13-4816-9, an apariție 2019
7. Alexandru Sălceanu, Eduard Luncă, Oana Neacșu, **Marius Păuleț**, Silviu Ursache, *Compatibilitate electromagnetică. Aplicații*, Editura PIM, Iași, pag. 208, ISBN 978-606-13-2812-3, an apariție 2015

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2. Mihaela Aradoaei, Andreea Maria Lucaci, Romeo Cristian Ciobanu, Cristina Schreiner, Bogdan George Rusu, Gabriela Elena Hitruc, Magdalena Aflori, **Marius Paulet**, Alina Ruxandra Caramitu, Adriana Mariana Bors, *Piezoelectric thin Film Composites with BaTiO3*

- for *Microelectronics*, Revista de Materiale Plastice, 2023, vol.:60, Issue 4, pp. 10-130, DOI:10.37358/MP.23.4.5683, factor de impact 0.8,
3. Mihaela Aradoaei, Romeo C. Ciobanu, Cristina Schreiner, **Marius Paulet**, Alina R. Caramitu, Jana Pinte, Mihaela Baibarac, *Three-Dimensional Printable Flexible Piezoelectric Composites with Energy Harvesting Features*, Polymers Journal 2023, Volume 15, Issue 11, 2548, DOI: 10.3390/polym15112548, WOS:001006230400001, factor de impact 5,
 4. M.R. Nechifor, A. Salceanu, **M.V. Paulet**, *Web-Application for Assisting Solar Storage Design*, pp. 622–626, - Proceedings of the 2022 12th International Conference and Exposition on Electrical and Power Engineering EPE 2022, DOI: 10.1109/EPE56121.2022.9959744, IEEE Xplore
 5. Salceanu, M. Roman Nechifor, **M. V. Paulet**, C. Popovici, *Web Tool for Evaluating Photovoltaic Opportunities for Potential Prosumers*, pp. 436–439, Proceedings of the 2022 12th International Conference and Exposition on Electrical and Power Engineering EPE 2022, 2022, DOI: 10.1109/EPE56121.2022.9959073, IEEE Xplore
 6. M.N. Roman, A. Salceanu, **M. Paulet**, D. Machidon, *Evaluation upon the Energy Resources of Photovoltaic Systems depending on their Location*, pp. 253–256, SIELMEN 2021 - Proceedings of the 11th International Conference on Electromechanical and Energy Systems, 2021, DOI: 10.1109/SIELMEN53755.2021.9600326, IEEE Xplore
 7. M. Ursachianu, O. Bejenaru, C. Lazarescu, A. Salceanu, **M. Paulet**, *The Assessment of Human Exposure in Iasi-City using Data Provided by the National Autonomous RF-EMF Monitoring System throughout 2020*, pp. 225–230, - Proceedings of the 11th International Conference on Electromechanical and Energy Systems (SIELMEN 2021), 2021, DOI:10.1109/SIELMEN53755.2021.9600350, IEEE Xplore
 8. **M. V. Paulet**, A. Salceanu, S. I. Ursache, D. F. Bordeianu, *On the Cumulative Effect of Magnetic Fields in the Deviation Zones of Overhead High Voltage Power Lines*, pp. 466–469, Proceedings of the 2020 11th International Conference and Exposition on Electrical And Power Engineering (EPE 2020), 2020, DOI: 10.1109/EPE50722.2020.9305563, IEEE Xplore
 9. **M. V. Paulet**, A. Salceanu, O. M. Asiminicesei, C. D. Neagu, *Electric Field in the Vicinity of High Voltage Deviation Towers*, pp. 452–456, - Proceedings of the 2020 11th International Conference and Exposition on Electrical And Power Engineering (EPE 2020), DOI: 10.1109/EPE50722.2020.9305612, 2020, IEEE Xplore 4 / 4 = 1 pct.
 10. O. Bejenaru, C. Lazarescu, **M. V. Paulet**, A. Salceanu, M. V. Ursachianu, *Factors Influencing the Distribution of Maximum Specific Absorption Rates in Far Field Human Exposure Scenarios*, ISSN: 2221-870X, September 2020, Volume 9, Number 3, pp. 59 – 64, ACTA IMEKO, 2020, DOI: https://doi.org/10.21014/acta_imeko.v9i3.794.
 11. O. Plopa, **M. Păuleț**, G.A. Ursan, L. Ungureanu, C. Schreiner, *Sisteme de testare senzorială capacitive C și RC pentru controlul automat al iluminatului*, Buletin IPI – 2019, <http://www.bulipi-eee.tuiasi.ro/archive/2019/fasc.4/2019f4sumar.pdf> (REVISTA BDI)
 12. O. Bejenaru, C. Lazarescu, **M. Paulet**, A. Salceanu, *On the Convergence of Specific Absorption Rate Values for Human Exposure to Electromagnetic Fields Produced by Mobile Communications Systems*, pp. 1-6, 2019 11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE), DOI:10.1109/atee.2019.8725013, Web of Science- WOS:000475904500168
 13. **M. Paulet**, C. Lazarescu, O. Bejenaru, A. Salceanu, *Study on Induced Currents in an Elliptical Cylindrical Model by Overhead High Voltage Power Lines*, pp. 1 – 5, 2019, 11th International

- Symposium On Advanced Topics In Electrical Engineering (ATEE), Web of Science
<https://www.webofscience.com/wos/woscc/full-record/WOS:000475904500028>
14. **M. Paulet**, O. Plopa, G. A. Ursan, I. Ursu, *Vibration and Mechanical Shock Monitoring Using Flexible Piezoelectric Sensors*, pp. 1 – 6, 2019, 11th International Symposium On Advanced Topics In Electrical Engineering (ATEE), Web of Science
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 15. O. Plopa, **M. Paulet**, G. A. Ursan, L. Ungureanu, C. Schreiner, *Capacitive C and RC Sensorial Test Systems in LabVIEW Graphic Programming Environment with NI USB-6210 Acquisition Board*, 2019 11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE), Web of Science
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 16. A. Salceanu, **M. Paulet**, B. D. Alistar, O. Asiminicesei, *Upon the Contribution of Image Currents on the Magnetic Fields Generated by Overhead Power Lines*, 2019 International Conference On Electromechanical And Energy Systems (Sielmen), Web of Science –
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 17. **M. V. Paulet**; C. Lazarescu, A. Salceanu, *Modeling the Currents Induced in the Human Body by an Overhead High Voltage Power Line*, 2018 International Conference And Exposition On Electrical And Power Engineering (EPE), Web of Science
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 19. **M. V. Păuleț**, A. Sălceanu, *Sistem la distanța pentru reabilitarea post-fractura a mâinii*, Buletin IPI – 2017, <http://www.bulipi-eee.tuiasi.ro/archive/2017/fasc.3/2017f3sumar.pdf>, (REVISTA BDI)
 20. Salceanu, E. Lunca, **M. Paulet**, *Affordable evaluation of low frequency electric fields from the standpoint of Directive 2013/35/EU*, ISSN: 2221-870X, December 2017, Volume 6, Number 4, pp. 37-45, ACTA IMEKO, DOI:https://doi.org/10.21014/acta_imeko.v6i4.486
 21. A. Salceanu, M. M. Poenaru, M. A. Anghel, **M. Paulet**, *Approach on the Evaluation of Exposure to Low Frequency Electric Fields*, Page 32-36, 2016, Proceedings Of The 21st Imeko Tc-4 International Symposium On Understanding The World Through Electrical And Electronic Measurement And 19th International Workshop On Adc Modelling And Testing, Web of Science, <https://www.webofscience.com/wos/woscc/full-record/WOS:000416980600007>
 22. A. Salceanu; **M. Paulet**; S. Ursache; M. M. Poenaru, *Evaluating the Cumulative Exposure to Low Frequency Electric Fields*, Proceedings Of The 2016 International Conference And Exposition On Electrical And Power Engineering (Epe 2016), 2016, DOI: 10.1109/ICEPE.2016.7781372, IEEE Xplore
 23. **M. V. Paulet**, A. Salceanu, O. M. Neacsu, *Ultrasonic Radar*, Proceedings Of The 2016 International Conference And Exposition On Electrical And Power Engineering (Epe 2016), 2016, DOI: 10.1109/ICEPE.2016.7781400, IEEE Xplore
 24. **M. V. Păuleț**, O. M. Neacșu, A. Sălceanu, *Sistem de acces securizat bazat pe recunoașterea caracteristicilor semnalului ECG*, Buletin IPI – 2015 fascicol 3, - <http://www.bulipi-eee.tuiasi.ro/archive/2015/fasc.3/2015f3sumar.pdf> (REVISTA BDI)

25. **M. V. Paulet**, A. Salceanu, A. Salceanu, *Automatic Recognition of the Person by ECG Signals Characteristics*, 2015, 9th International Symposium On Advanced Topics In Electrical Engineering (ATEE), 2015, DOI: 10.1109/ATEE.2015.7133780, IEEE Xplore
26. A. Salceanu, **M. V. Paulet**, S. I. Ursache, *Fast Method for Determining Significant Electrical Parameters of ESD-Textiles*, 2015, 9th International Symposium On Advanced Topics In Electrical Engineering (ATEE), 2015, DOI: 10.1109/ATEE.2015.7133829, IEEE Xplore

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

I. Lucrări științifice publicate în volumele conferințelor.

1. Petronela-Camelia Oprea, **Marius-Valerian Păuleț**, Andrei Salceanu, *Study On Adult-Child Differences from the Perspective of Radiofrequency Electromagnetic Energy Absorption*, 15th International Conference on Electromechanical and Emery Systems - Sielmen 2025, 16-17 Octombrie 2025 Chisinau, Republica Moldova
2. Petronela-Camelia Oprea, Andrei Sălceanu, **Marius-Valerian Păuleț**, Matei Constantin Moruz, *Approach to Floral Digital Models from a SAR Perspective*, 15th International Conference on Electromechanical and Emery Systems - Sielmen 2025, 16-17 Octombrie 2025 Chisinau, Republica Moldova

J. Invenții.

K. Contracte de cercetare.

1. DIRECTOR proiect - "Cabinet medical virtual" – GnaC 2023 – 244/2024, 49771 RON
2. Membrane nanoporoase pentru pseudolivrarea intratecala a medicamentelor, ERANET-EURONANOMED-INTREPIDUS-1, nr. 193/2020, 535,700 RON, 2020-2023, 36 luni Prof. Ciobanu Romeo Cristian, Membru în echipa de cercetare
3. Biosenzori bazati pe arhitecturi nanofluidice pentru detectia proteinelor umane" MINaFBioS, PNIII - ERANET, MANUNET-III nr. 149/2020, 432,250 RON, 2020-2022, 30 luni, Director Prof. Schreiner Cristina, Membru în echipa de cercetare
4. Îmbunătățirea tehnologiilor de printare pentru fabricarea economica a sistemelor de analiză tip Point of Care (PRINTPoC), PNIII - ERANET, COFUND-MANUNET, nr. 17/2018, 427,700 RON, 2018-2020, 24 luni, Director Prof. Schreiner Cristina, Membru în echipa de cercetare
5. Sistem de sortare a deșeurilor de constructii si demolari (DCD) bazat pe robotică avansată (STEWART), PNIII - ERANET, COFUND-MANUNET, nr. 22/2018, 547,137RON, 2018-2020, 24 luni, Director Prof. Ciobanu Romeo Cristian, Membru în echipa de cercetare
6. Tehnologie de fabricare a filmelor conductive anizotropice nanostructurate cu arhitectură adaptabila sub actiunea campului electromagnetic, pentru aplicații electronice și biomedicale, PNIII - ERANET, COFUND-MANUNET, nr. 18/2018, 555,100RON, 2018-2020, 24 luni, Conf. Olariu Marius, Membru în echipa de cercetare
7. Metoda avansată de diagnostic în stadiu incipient al neoplaziei gastrice bazată pe imagistica moleculară în domeniul terahertz activată cu nanoparticule (NanoTeraPlasia), PN-III-P2-2.1-PED-2016-1598 nr. 245PED/2017, 195,000 RON, 2017-2018, 16 luni, Director Prof. Ciobanu Romeo Cristian, Membru în echipa de cercetare
8. Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetice într-un oraș durabil (SMART URBAN ISLE), PNIII - Proiect ERANETCofund, Contract

83/2016, 710.968,5 RON, 2016 – 2018, 24 luni , Director Prof. Ciobanu Romeo Cristian,
Membru în echipa de cercetare

L. Premii, distincții.

M. Alte realizări semnificative.

Data,
26.02.2026

Păuleț Marius Valerian

Lista de lucrări în domeniul de studii universitare de licență Inginerie Electrică

Numele și prenumele: **Petrișor Daniel**

A. *Teza de doctorat.*

1. „CERCETĂRI PRIVIND MONITORIZAREA MOBILITĂȚII REGIUNILOR OCULARE UTILIZÂND TEHNICI DE PROCESARE DIGITALĂ A IMAGINILOR”, 2012, Domeniul „Inginerie Electrică”, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: prof. dr. ing. Fosalau Cristian

B. *Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.*

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C. *Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).*

1. Daniel Petrișor, PROCESAREA DIGITALĂ A IMAGINILOR CU APLICAȚII ÎN MONITORIZAREA MOBILITĂȚII REGIUNILOR OCULARE, Editura PIM Iași, ISBN 978-606-13-2142-1, 189 de pagini, 2014.

D. *Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.*

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E. *Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.*

1. Petrișor Daniel, Damian Cătălin, Programarea Calculatoarelor și Limbaje de Programare Aplicații de Laborator, 229 de pagini, <http://www.infopuc.ro/files/laboratoare.html>, 2012 – 2015
2. Zet Cristian, Petrișor Daniel, Arhitectura Calculatoarelor Aplicații de Laborator, 172 de pagini, <http://iota.ee.tuiasi.ro/~ac/laboratoare.html>, 2012 - 2017.

F. *Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.*

1. Cristian Fosalau, Cristian Zet, Daniel Petrisor, *Multiaxis inclinometer for in depth measurement of landslide movements*, Sensor Review, vol.35 Issue 3, Emerald Group Publishing Limited, ISSN: 0260-2288, vol. 35, no. 3, pp. 296-302 (2015) (ISI Web of Science, IF 2015 = 0,75), 15 June 2015;

G. *Lucrări științifice publicate în reviste din străinătate.*

1. C. Damian, D. Petrisor, C. Fosalau, C. Zet, *Landslide surveillance using a wireless measurement grid*, Environmental Engineering and Management Journal, 2019
2. Cristian Fosalau, Cristian Zet and Daniel Petrisor, *A Highly Sensitive Transducer for Landslide Monitoring*, MATTER: International Journal of Science and Technology, Vol. 1, No.1, pp. 1-11, July 2015, ISSN 2454-5880, disponibil on-line la: <http://grdspublishing.org/4-issue-one/1-a-highly-sensitive-transducer-for-landslide-monitoring.html>, July 2015.
3. Fosalau C., Zet C., Petrisor D., *A new landslide inclinometer using highly sensitive gauges*, International Journal on Smart Sensing and Intelligent Systems, Proceedings of the 8th International Conference on Sensing Technology ICST2014, Liverpool, United Kingdom, ISSN 1178-5608, pp. 220-224, September 2-4, 2014;
4. Zet C., Fosalau C., Petrisor D., *Study of the sensitivity and stability of a landslide sensor based on magnetic amorphous wires*, International Journal on Smart Sensing and Intelligent Systems, Proceedings of the 8th International Conference on Sensing Technology ICST2014, Liverpool, United Kingdom, ISSN 1178-5608, pp. 216-219, September 2-4, 2014;

H. *Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.*

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I. *Lucrări științifice publicate în volumele conferințelor.*

1. Silviu Nicolae Dobrea, Daniel Petrisor, "Client-Server Application for Real-Time Video Streaming," 2024 47th International Conference on Telecommunications and Signal Processing (TSP), Prague, Czech Republic, 2024, pp. 253-259, doi: 10.1109/TSP63128.2024.10605960
2. Carmen Cărlan; Daniel Petrișor; Barbara Gallina; Hannes Schoenhaar, Technical University of Iași, Iași, Romania, Checkable Safety Cases: Enabling Automated Consistency Checks between Safety Work Products, 2020 IEEE International Symposium on Software Reliability Engineering Workshops (ISSREW), 978-1-7281-7735-9, Coimbra, Portugal, Portugal , 10.1109/ISSREW51248.2020.00088
3. Daniel Petrisor, Danilo da Costa Ribeiro, Tackling Human Factors within New Autonomous Scenario, Human System Integration Conference, Biarritz, France, september 2019
4. Daniel Petrisor, Catalin Daniel Galatanu, Cristian-Győző Haba, Liviu Breniuc, Color Quality Measurements of LED Light Sources Using Image Processing, 2019 IEEE International Conference on Environment and Electrical Engineering and 2019 IEEE Industrial and Commercial Power Systems Europe (EEEIC/I&CPS Europe)
5. Galatanu, Catalin-Daniel; Haba, Cristian-Gyozo; Petrisor, Daniel; Breniuc, Liviu, Imaging Measurements for Public Lighting Predictive Maintenance, 2019 11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE) Published 2019
6. Breniuc, Liviu; Haba, Cristian-Gyozo; Galatanu, Catalin-Daniel ; Petrisor, Daniel; Hertanu, Radu, Correlated Color Temperature Measuring and Adjustment System, 2019 11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE)Published 2019
7. Haba, Cristian-Gyozo; Breniuc, Liviu ; Galatanu, Catalin-Daniel ; Petrisor, Daniel ; Hertanu, Radu, IoT System for Implementation of Connected Lighting, 2019 11TH INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE)Published 2019
8. Leonte Constantin, C. Fosalau, C. Zet, D. Petrisor, Driver Monitoring Using Face Detection and Facial Landmarks, EPE 2018 - INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2018), Iasi, Romania, 2018
9. C.Fosalau, C. Zet, D. Petrisor, Implementation of a Landslide Monitoring System as a Wireless Sensor Network, 7th IEEE Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (IEEE UEMCON) Location: New York, NY Date: OCT 20-22, 2016.
10. D.Petrișor, C. Zet, C.Foșalău, Optimized Data Flow Management in Event Driven Wireless Sensor Networks A Case Study on Landslide Surveillance, 7th IEEE Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (IEEE UEMCON) Location: New York, NY Date: OCT 20-22, 2016.
11. C. Zet, C.Fosalau, D. Petrisor, Study of the power consumption of a landslide sensor node, 7th IEEE Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (IEEE UEMCON) Location: New York, NY Date: OCT 20-22, 2016.
12. Petrisor, D., Zet, C., Fosalau, Data consistency and fault management in local sensor networks used for landslide surveillance, 21st IMEKO TC-4 International Symposium on Understanding the World through Electrical and Electronic Measurement, and

19th International Workshop on ADC Modelling and Testing, pp. 113-116, September 7-9, 2016.

13. Fosalau, C., Hogas, I., Zet, C., Petrisor, D., A PSpice model for sensors based on stressimpedance effect, 21st IMEKO TC-4 International Symposium on Understanding the World through Electrical and Electronic Measurement, and 19th International Workshop on ADC Modelling and Testing, September 7-9, 2016.
14. Catalin Ionescu, Cristian Fosalau, Daniel Petrisor, Cristian Zet, A pupil center detection algorithm based on eye color pixels differences, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015 Grigore T. Popa University of Medicine and Pharmacy, ISBN 978-1-4673-7545-0/15, Iași, Romania, November 19-21, 2015;
15. Cristian Zet, Cristian Foșalău, Daniel Petrișor, Pore water pressure sensor for landslide prediction, IEEE Sensors 2015 International Conference, IEEE Catalog Number: CFP15SEN-USB, ISBN: 978-1-4799-8202-8, Busan, South Korea, pp.390-393, 1-4 November, 2015;
16. D.Petrișor, C.Foșalău, C. Zet, Remote Measurement and Surveillance Grid for Landslide Risk Assessment and Mitigation, 38th International Conference on Telecommunications and Signal Processing, TSP 2015, July 9-11, 2015, Prague, ISBN 978-1-4799-8498-5, pp. 154-158.
17. C.Ionescu, C.Fosalau, D. Petrisor, A study of changes in image contrast with various algorithms, 2014 International Conference and Exposition on Electrical and Power Engineering EPE 2014, ISBN 978-1-4799-5848-1, Iasi, Romania, pp. 100-104, October 16-18, 2014;
18. Petrisor D., Fosalau C., Visual attention communication method for impaired people by eye and eyelid movements: A Framework for Real World Scenarios, 2014 IEEE International Symposium on Medical Measurements and Applications MeMeA 2014, Lisbon, Portugal, pp. 627–632, June 11-12, 2014;
19. Fosalau C., Zet C., Petrisor D., Damian C., A new type of highly sensitive strain gage based on microstructured magnetic materials, IEEE International Symposium on Robotic and Sensors Environments (ROSE), Washington DC, USA, pp. 102–106, Oct. 21-23, 2013;
20. Petrisor D., Fosalau C., Zet C., Damian C., Measurement of landslide displacement and orientation using strain gauges based on amorphous magnetic microwires, 19th IMEKO TC4 Symposium - Measurements of Electrical Quantities 2013 and 17th International Workshop on ADC and DAC Modelling and Testing, Barcelona, Spain, pp. 655-660, July 18-19, 2013;
21. Zet C., Fosalau C., Petrisor D., Damian C., Landslide transducer based on amorphous wire strain gauges, 19th IMEKO TC4 Symposium - Measurements of Electrical Quantities 2013 and 17th International Workshop on ADC and DAC Modelling and Testing, Barcelona, Spain, pp. 286-289, July 18-19, 2013;
22. Petrișor D., Foșalău C., Măriuț F., Video Acquisition Framework for High Speed Video Measurements of Human Eyelid Mobility, 7th International Conference of Electrical and Power Engineering – EPE 2012, Faculty of Electrical Engineering, Iași, Romania, ISBN: 978-1-4673-1171-7, pp. 857-860, Oct. 25–27, 2012;
23. Branzila M., Mariut F., Petrisor D., Virtual instrument developed for adcon weather station, 7th International Conference of Electrical and Power Engineering – EPE2012, Faculty of Electrical Engineering, Iași, Romania, ISBN: 978-1-4673-1171-7, pp. 853–856, Oct. 25–27, 2012;
24. Lunca E., Damian C., Petrisor D., Postolache O., Programmable active filters based on digital potentiometers, 7th International Conference of Electrical and Power Engineering – EPE2012, Faculty of Electrical Engineering, Iași, Romania, ISBN: 978-1-4673-1171-7, pp. 787–791, Oct. 25–27, 2012

25. Măriuț F., Foșalău C., Petrișor D., Traffic Sign Recognition using Wireless Communication, 7th International Conference of Electrical and Power Engineering – EPE 2012, Faculty of Electrical Engineering, Iași, Romania, ISBN: 978-1-4673-1171-7, pp. 59–63, Oct. 25–27, 2012;
26. Măriuț F., Foșalău C., Petrișor D., Lane Mark Detection Using Hough Transform, 7th International Conference of Electrical and Power Engineering – EPE 2012, Faculty of Electrical Engineering, Iași, Romania, ISBN: 978-1-4673-1171-7, pp. 871-875, Oct. 25–27, 2012;
27. Petrișor D., Foșalău C., Zet C., Măriuț F., High Speed Video Monitoring System for Eyelid Movement Measurements, Proceedings of the 35th International Conference on Telecommunications and Signal Processing - TSP 2012, Prague, Czech Republic, ISBN: 978-1-4673-1116-8, IEEE Catalog Number: CFP 1288P-CDR, pp. 730-734, July 3-4, 2012;
28. Măriuț F., Foșalău C., Zet C., Petrișor D., Experimental Traffic Sign Detection using I2V Communication, Proceedings of the 35th International Conference on Telecommunications and Signal Processing - TSP 2012, Prague, Czech Republic, ISBN: 978-1-4673-1116-8, IEEE Catalog Number: CFP 1288P-CDR, pp. 141-145, July 3-4, 2012;
29. Petrișor D., Foșalău C., Măriuț F., Measurement Algorithm for Amplitude, Duration and Velocity of Upper Eyelid Movements, Proceedings of E-Health and Bioengineering Conference: EHB 2011, Iași, România, ISBN: 978-606-544-078-4, pp. 439-442, Nov. 24-26, 2011;
30. Petrișor D., Foșalău C., Avila M., Măriuț F., Algorithm for Face and Eye Detection Using Colour Segmentation and Invariant Features, ISI Proceedings of the 34th International Conference on Telecommunications and Signal Processing - TSP 2011, Budapest, Hungary, ISBN 978-1-4577-1409-2, IEEE Catalog Number: CFP1188P-CDR, pp. 564-569, August 18-20, 2011;
31. Măriuț F., Foșalău C., Avila M., Petrișor D., Detection and Classification of Traffic Signs using Gabor Filter, ISI Proceedings of the 34th International Conference on Telecommunications and Signal Processing - TSP 2011, Budapest, Hungary, ISBN 978-1-4577-1409-2, IEEE Catalog Number: CFP1188P-CDR, pp. 554-558, August 18-20, 2011;
32. Petrișor D., Foșalău C., Măriuț F., Tudosă I., Human Eye localization algorithm by using the structural model of the eye, 6th International Conference of Electrical and Power Engineering – EPE2010, Faculty of Electrical Engineering, Iași, Romania, ISBN: 978-606-13-0078-5, pp. II-289 – II-292, Oct. 28–30, 2010;
33. Tudosă I., Foșalău C., Petrișor D., Măriuț F., Studies on the effectiveness of the LMS algorithm used in signal filtering, 6th International Conference of Electrical and Power Engineering – EPE2010, Faculty of Electrical Engineering, Iași, Romania, ISBN: 978-606-13-0078-5, pp. II-357 – II-360, Oct. 28–30, 2010;
34. Măriuț F., Fosala C., Petrisor D., Tudosa I., Automated recognition of traffic speed limits using digital image processing, 6th International Conference of Electrical and Power Engineering – EPE2010, Faculty of Electrical Engineering, Iași, Romania, ISBN: 978-606-13-0078-5, pp. II-285 – II-288, Oct. 28–30, 2010;
35. Petrișor D., Măriuț F., Sistem de monitorizare wireless a temperaturii, A 2-a ediție a simpozionului științific studențesc național – ELStudIS 2010, Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată, Iași, România, ISBN: 978-606-13-0066-2, pp. 141-146, 26-27 octombrie 2010;
36. Măriuț F., Petrisor D., Utilizarea transformatei Hough in procesarea digitală a imaginii, A 2-a ediție a simpozionului științific studențesc național – ELStudIS 2010, Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată, Iași, România, ISBN: 978-606-13-0066-2, pp. 135-140, 26-27 octombrie, 2010;

37. Ioan Tudosa, Cristian Foşalău, Cristian Zet, Dumitru Costineanu, Daniel Petrişor, Experimental Test Bench for DSP Applications, Proceedings of the 5th International Conference on Metrology & Measurement Systems METSIM 2009, Bucharest, Romania, Editura Noua, pp. 46-51, ISBN 978-606-8082-22-6, November 5-6, 2009;
38. Haba Cristian-Gyozo, Tudosa Ioan, Petrisor Daniel, Adapting Curricula to the Job Market in a Partnership with Industry, Buletinul Institutului Politehnic Iasi, LIV(4), pp. 183-188, 2008;

J. *Invenții.*

1. HIGHLY SENSITIVE DEFORMATION TRANSDUCER, RO131346A2 • 2016-08-30 • UNIV TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI [RO] Earliest priority: 2015-02-17 • Earliest publication: 2016-08-30
2. SENSOR FOR MEASURING HYDROSTATIC PORE PRESSURE, RO132116A2 • 2017-08-30 • UNIV TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI [RO], Earliest priority: 2016-02-19 • Earliest publication: 2017-08-30
3. PARTITION WALL/WINDOW, RO133012A2 • 2018-12-28 • UNIV TEHNICA GHEORGHE ASACHI DIN IASI [RO], Earliest priority: 2017-06-09 • Earliest publication: 2018-12-28

K. *Contracte de cercetare/granturi.*

1. Director de proiect, grant intern TUIASI, GI-18, an 2021, cu titlul "Metoda de identificare a modelelor comportamentale și sistem de evaluare a performanței umane în contextul conducerii de autovehicule/ SafeModel".
2. Membru în echipa de cercetare a proiectului Sistem complex de monitorizare a alunecărilor de teren utilizând traductoare bazate pe noi materiale și tehnologii, PN-II-PT-PCCA-2011-3.2-0975, în intervalul 2012 – 2016.
3. Membru, Contract 83/2016, Proiect internațional Era Net Cofund, Titlul: Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetice într-un oraș durabil (SMART URBAN ISLE), în anul 2016.
4. Membru în echipa de cercetare a proiectului Dezvoltarea portofoliului de produse inovative al S.C. CAOM S.A. prin transferul tehnologic al unei marci tensometrice cu sensibilitate ridicată - 39PTE, începând cu anul 2016.

L. *Premii, distincții.*

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M. *Alte realizări semnificative.*

-

Data,
10 Octombrie 2025

S.I dr. ing. Daniel Petrisor

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Nume și prenume : Pingescu Bogdan-Andrei

A. Teza de doctorat.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

Constantin Razvan Beniuga, Bogdan Andrei Pingescu, Oana Cristina Beniuga, Alin Dragomir, Dragos-George Astanei, Radu Burlica, "Photovoltaic Panel System with Optical Dispersion of Solar Light for Greenhouse Agricultural Applications"
AgriEngineering 2025, 7, 125. <https://doi.org/10.3390/agriengineering7040125>

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

I. Lucrări științifice publicate în volumele conferințelor.

Pingescu Bogdan; Astanei Dragos; Burlică Radu; Asmarandei Vasile Daniel; Beniugă Oana Cristina; Gheorghe Veronica, "Capacitive Power Supplies for Non-Thermal Plasma Electrochemical Mini-Reactors" – 2024 IEEE International conference and Exposition of Electric and Power Engineering (EPEi)
DOI: [10.1109/EPEi63510.2024.10758134](https://doi.org/10.1109/EPEi63510.2024.10758134)

Alin Dragomir; Maricel Adam; Dragos-George Astanei; Bogdan-Andrei Pingescu; Aurel-David Paizan; Alexandra Bodoga, "Digital Communication Capabilities of Low Voltage Circuit Breakers" - 2024 IEEE International conference and Exposition of Electric and Power Engineering (EPEi) DOI: [10.1109/EPEi63510.2024.10758137](https://doi.org/10.1109/EPEi63510.2024.10758137)

Bogdan-Andrei Pingescu; Vasile Daniel Asmarandei; Dragoș George Astanei; Oana Cristina Beniugă; Constantin Razvan Beniugă; Radu Burlică, "High Conductivity solution treatment by non-thermal plasma T-shaped mini electrochemical reactors" - 2024 IEEE International conference and Exposition of Electric and Power Engineering (EPEi) DOI: [10.1109/EPEi63510.2024.10758144](https://doi.org/10.1109/EPEi63510.2024.10758144)

Oana-Cristina Beniuga, Bogdan-Andrei Pingescu, Constantin Razvan Beniuga, Dragos Astanei, Frederik Lebeau, Radu Burlica, „Enhancing Reactive Species Availability for

Plant Growth Thorough Plasma-Activated Water Integration in Sustainable Farming”
– International Conference on Electromechanical and Energy Systems 2025 (SIELMEN 2025)

Vasile-Daniel Asmarandei, Bogdan-Andrei Pingescu, Radu Burlică, Petronela-Camelia Oprea, Răzvan Beniugă, Dragoș Astanei, „Non-Thermal Plasma Treatment Of Acetone-Polluted Wastewater From Chemical Industry Processes” – TUIASI 8th International Conference of Doctoral School 2025 (CSD 2025)

Bogdan-Andrei Pingescu, Daniel Asmarandei, Dragoș Astanei, Oana Beniugă, Răzvan Beniugă, Radu Burlică, „Green Nitrate And Hydrogen Peroxide Synthesis By Non-Thermal Plasma Reactors For Agricultural Applications” – 13th International Conference On Environmental Engineering And Management, 17-20 Sept. 2025 (ICEEM 2025)

Covali, R. Burlica, D. Astanei, B. Pingescu, A. Anton, M Andrusca,

DC Circuit Breaker with rotary contacts, Proc. of 15th International Conference on Electromechanical and Energy Systems – SIELMEN 2025, 16-17 oct 2025, Chișinău, Republica of Moldova

Bogdan-Andrei Pingescu, Radu Burlica, Dragos-George Astanei, Constantin-Bogdan Paduraru, Ionut-Alexandru Covali, Daniel Asmarandei „Preliminary Assessment of a Non-Thermal Plasma Reactor Producing Hydrogen Peroxide and Nitrate for Water-Soluble Dye and Organic Compound Degradation” - Global Conference for Decarbonization of Energy and Materials (GC-DEM 2025), 16-19 oct. 2025, Singapore

C.R. Beniuga, M. Tirșu, Mihai; R. Burlica, D.G. Astanei, B.A. Pingescu, O.C. Beniuga, Pathways to Efficient Agrivoltaics Through Functional Requirements and Light Dispersion Constraints for Photovoltaic Greenhouses, Proc. of 15th International Conference on Electromechanical and Energy Systems – SIELMEN 2025, 16-17 oct 2025, Chișinău, Republica of Moldova

J. Invenții.

K. Contracte de cercetare.

Proiect IRP (Franța Université d’Orléans - România TUIASI) GREMI, UMR 7334 CNRS:

Reactoare cu plasmă non-termică pentru degradarea diferiților compuși din apele uzate. – Membru de proiect

PN-IV-PCB-ROMD-2024-0382 - SynFarm: Integrarea sinergetică a panourilor fotovoltaice complexe cu sistem de dispersie a luminii și tehnologiilor de producere a apei activate cu plasmă non-termică în agricultura durabilă în sere – Membru de proiect.

PN-IV-P8-8.3-PM-RO-BE-2024-0011 - AgriPAW (colaborare Belgia ULiège - România TUIASI):

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L. Premii, distincții.

M. Alte realizări semnificative.

Data,

Nume, semnătura

Pingescu Bogdan-Andrei

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Numele și prenumele: **Marian-Silviu Poboroniuc**

A. Teza de doctorat.

1. „Identificare și comandă pentru conducerea roboților industriali” 2000, Domeniul „Sisteme Automate”, Universitatea POLITEHNICA din București, conducător doctorat: prof. dr. ing. Dumitru Popescu.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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J. **Invenții.**

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K. **Contracte de cercetare/granturi.**

Internationale:

1. European Project “**Boosting INGENIUM for Excellence (BI4E)**”, HORIZON-WIDERA-2021-ACCESS-05-01-European Excellence Initiative under Grant Agreement No. 101071321 -BI4E, 2023-2026 (TUIASI Key Expert in WP6: Promoting the attractiveness of academic careers).
2. **Strategic Alignment of Electrical and Information Engineering in European Higher Education Institutions** (SAIE), No. 527877-LLP-1-2012-1-UK-ERASMUS-ENW (EU Lifelong Learning project), 2012-2015, Coordonator: University of York, UK, <http://www.saleie.co.uk/index.html>; Responsabil proiect P12-TUIASI: Marian Poboroniuc (lider Workpackage 3), 30000 Euro (~ 133200 RON).
3. H2020-WIDESPREAD-2018-2020: **Development of a World-Level Neuroengineering Research Centre by European Twinning**, BRAINTWIN, tip: H2020-WIDESPREAD-2018-2020, nr.952378/26.06.2020, Coordinator: TUIASI, Marian Poboroniuc (key expert of TUIASI BrainTwin team).

Naționale:

1. PN4-P7-157/03.06.2025: HealthTech Project no. 5FTT/2025- “**HealthTech Connect - Tehnologie și inovare în sănătate**”, (Programul 5.7 - Parteneriat pentru Inovare; Subprogramul 5.7.4 - Transfer tehnologic în sprijinul competitivității - pentru crearea și dezvoltarea de servicii CDI – 6 months); 498992 RON (TUIASI Key Expert).
2. Project “STEM. Dance and Neuroscience” (Grant no.420/29.04.2025) is initiated by the Choreography Section Association. Partnership: “George Enescu” National University of Arts Iași, “Gheorghe Asachi” Technical University of Iași, “Grigore T. Popa” University of Medicine and Pharmacy Iași, National Museum of Romanian Literature Iași. The project is co-funded by the Ministry of Culture and the “George Enescu” National University of Arts Iași, through a grant from the Institute for Multidisciplinary Research in Art (TUIASI Key Expert).
3. P3 PNIII/ 25PTE/2020, Intelligent mechatronic-textile gloves for hand rehabilitation in stroke (Mănuși mecatronice textile inteligente pentru recuperarea mâinii la persoanele cu accident vascular cerebral)- MANUTEX, Coordinator: SC MAGNUM SX SRL Bucharest, TUIASI project responsible: Marian Poboroniuc & Rehabilitation Hospital of Iasi, 01.06.2020-31.05.2022.
4. PN-III-P2-2.1-BG-2016-0236, Applications of video image processing technologies for autonomous vehicles and traffic safety, Coordinator: TUIASI, role: Key Expert, 01.10.2016-30.09.2018.

5. PN-II-PT-PCCA-2013-4-1580, Virtual Therapist with Augmented Feedback for Neuromotor Recovery, Coordinator: Politehnica Univ. of Bucharest, Role: Key Expert, 01.07.2014-30.09.2017.
6. PNII project NOVAFES, no.267/2014, Innovative garments with embedded electrodes for functional electrical stimulation based rehabilitation (Materiale textile inovative cu electrozi incorporati pentru recuperarea prin stimulare electrica functionala a persoanelor cu dizabilitati neuromotorii), UEFISCDI- Romania, 2014-2016, Coodinator: Gheorghe Asachi Technical University of Iasi; Director: Marian Silviu Poboroniuc (partners: Clinical Rehabilitation Hospital of Iasi, SC Magnum SX SRL, SC RO-GALU SRL, Bucharest).
7. PNII project, IHRG -"AN INTELLIGENT HAPTIC ROBOT GLOVE for the PATIENTS SUFFERING A CEREBROVASCULAR ACCIDENT" No. 150/2012, 2012-2015, Coodinator: University of Bucharest; Project responsible TUIASI: Marian Poboroniuc.
8. EUREKA PROJECT E!7218 –ACRONYM ProTexHeatINT, INOVARE project, 2012-2015 -"Functional Textile Products for Different Heating and Other Intelligent Applications" Project coordinator: SC Magnum SX SRL, Bucharest, participants: Gheorghe Asachi Technical University of Iasi, UNITEKS -Tekstil Gıda Motorlu Araçlar San.Tic.A.Ş, Turkey, RO-GALU PROD Ltd., Bucharest, TUIASI Members: Antonela Curteza (coordinator), Marian Poboroniuc, Laura Macovei, Danut Irimia.
9. PNII project, EXOSLIM -"A HYBRID FES-EXOSKELETON SYSTEM TO REHABILITATE THE UPPER LIMB IN DISABLED PEOPLE" No. 180/2012, 2012-2015, Coodinator: University of Iasi; Project coordinator: Olaru Radu, Scientific director TUIASI: Marian Poboroniuc.
10. FIPPTex-Advanced Materials and Products Designed for Persons with Special Needs – Romania- Turkey bilateral cooperation – Capacities Module III – 2010-2011, project no.408/03.05.2010; Members: Antonela Curteza (coordinator), Marian Poboroniuc, Laura Macovei, Viorica Serban, Danut Irimia.
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 18. Microelectronics techniques utilization to provide nervous stimuli and to help in neurological recovery of subjects with lesions at the central nervous system level (Utilizarea tehnicilor micro-electronice in generarea stimulilor de natura nervoasa si recuperarea neuromotorie a persoanelor cu leziuni la nivelul sistemului nervos central) (October 2004 - March 2006), Contract VIASAN no. 469/2004, Granted by Research and Education Ministry of Romania. Staff: Dr. Nita Lucian, Dr. Marian Poboroniuc, Dr. Cristian Dinu Popescu, MD.
 19. Slovene-Romanian Bilateral Scientific and Technological Cooperation Project: "Development of sensory supported FES system for restoring standing-up and sitting down in paralyzed patients" (May 2003 - December 2004);
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Data: 21.11.2025

Semnătura:

Lista de lucrări în domeniul de studii universitare de licență ”Inginerie electrică”

Numele și prenumele: **prof.dr.ing. Prisăcaru Gheorghe**

A. Teza de doctorat.

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I13. Aspazia Olar, **Gh.Prisacaru**, D.Olaru, *Proiectarea unui optional – Bionica*, Conferinta Nationala de Educatie Tehnologica si Tehnologii Educationale, CNETTE 2009, 4-5 iunie, 2009, Cluj Napoca, p.31-34, Editura Toderescu, ISSN 2066-446X.

I14. Dumitru N. Olaru, **Gh. Prisacaru**, Peter Lorenz, *Friction in linear rolling systems for microactuators*, Tribology Conference **ROTRIB '07**, Bucuresti, 8-10 nov.2007 (<http://rotrib.pub.ro/>) (http://www.mec.tuiasi.ro/contracte/contractolaru/ROTRIB07_084.pdf)

I15. Dumitru N. OLARU, Peter LORENZ, **Gheorghe PRISACARU** *Friction coefficient in linear rolling system. from macro to micro tribosystems*, 15 th Int. Colloquium of Tribology, 17-19 January, Section G-5, T.U.Esslingen, Germania, Ianuarie 2006

I16. Dumitru N. OLARU*, Peter LORENZ**, **Gheorghe PRISACARU*** *Friction coefficient in a micro linear rolling system for MEMS applications*, 50 IW Kolloquium: From Macro to micro in Mechanical Engineering, T.U. Ilmenau, Germania, 19-23 Sept. 2005, p.213-214

I17. **Gheorghe Prisăcaru**, Dumitru Olaru, Dominic Antăluță - *Studiul tribologic al sistemelor liniare de ghidare cu rostogolire din structuri mecatronice*, Analele Universitatii „Valahia” Targoviste, Lucrarile Simpozionului International :Mecatronica, Microtehnologii si Materiale noi”, Editura Macarie, Targoviste, 2003, ISBN 973-8135-64-8, p.145-150.

I18. D. Olaru, **Gh. Prisacaru**: *Friction in the linear rolling guidance*, COMEFIM-6, Brasov, 10-12 oct. 2002, vol. 1-20a, p.127-136

I19. D. N. Olaru, P. Lorenz, D. Rudy, SP. Cretu, **Gh. Prisacaru** - *Tribology Improving the Quality in the Linear Rolling Guidance Systems. Part 1- “Friction in Two Contact Points Systems”*, Proc. of the 13th International Colloquium on Tribology, Esslingen (Germany), 15-17 January, 2002

I20. **Gh. Prisacaru**, Sp. Cretu, D.N. Olaru, P. Lorenz - *Cylindrical roller bearing carrying thrust load*, 2nd World TRIBOLOGY Congress, 03 - 07 September 2001, Vienna, AUSTRIA - Messe Congress Center (lucrările editate pe CD)

I21. V. Paleu, S. Cretu, D. Olaru, **Gh. Prisacaru**, I. Bercea - *Numerical results of a quasi-static analysis on a hybrid ball bearings*, BALKANTRIB'99, 3-rd International Conference of Tribology, ISSN 1221-9371, 2-4 June, 1999, Sinaia, p. 81-88

I22. S. Cretu, **Gh. Prisacaru**, N. Mitu, V. Paleu - *The tangential stresses in the tribological contact of the cylindrical roller bearing*, BALKANTRIB'99, 3-rd International Conference of Tribology, ISSN 1221-9371, 2-4 June, 1999, Sinaia, p. 47-56.

I23. **Gh. Prisăcaru**, S. Cretu, D. Nelias, G. Slevoacă - *Roulements a rouleaux cilindriques a capacite de charge axiale*, Journee Roulements, Toulouse (France), 5-7 mai, 1999.

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I25. **Gh. Prisăcaru**, D. Olaru, S. Crețu, D. Lefter *Influence of the rib-roller end contact geometry on the cylindrical roller bearing lubrication*, Proceedings of the 11th International Colloquium Tribology, Stuttgart/Ostfildern (Germany), Jan. 3-15, 1998, vol. I, ISBN 3-924813-3-6, p. 645-654

I26. S. Cretu, **Gh. Prisacaru** - *Evaluation of skewing and skidding motions in cylindrical roller bearings*, Conferinta internationala TURBO'98, 13-15 iulie, 1998, Bucuresti, vol. 2, ISBN 973 9402-21-6, p.319-326.

I27. Mitu, I. Bercea, **Gh. Prisacaru** - *A solution of the three-dimensional elastic bodies frictional contact problem*, VAREHD'98, Suceava, 6-8 iunie, 1998

I28. S. Cretu, **Gh. Prisacaru**, I. Bercea, N. Mitu - *Theoretical investigation on skew motion of rollers*

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- I29. S. Crețu, Gh. Prisăcaru, I. Bercea, N. Mitu** - *Theoretical investigation on friction sources in a radial cylindrical roller bearing*, VAREHD'96, 8-th Conference on EHD Lubrication and Traction, Suceava, 6-8 June, 1996.
- I30. Gh. Prisăcaru, I. Bercea, S. Crețu, N. Mitu** - *Non-Newtonian behaviour of mineral oils in cylindrical roller bearing*, Proceedings of the 10th International Colloquium Tribology-Solving Friction and Wear Problems, Technische Akademie Esslingen, Stuttgart / Ostfildern (Germany), 1996, 9-11 ian., p. 1617-1623.
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- I32. S. Crețu, Gh. Prisăcaru, N. Mitu** - *Lubrication regimes on the rib-roller end contacts in cylindrical bearings*, YUTRIB'95, Proc. of 4-th Yugoslav Conference on Tribology, Herceg Novi (Yugoslavia), Sept. 27-29, 1995, p. 91-92
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- I34. G. Prisăcaru, I. Bercea, N. Mitu, S. Crețu, D. Silion** - *The Analysis of the Quasi-Dynamic Equilibrium in Cylindrical Roller Bearing*, Proceedings of the 6-th Nordic Symposium on Tribology, NORDTRIB'94, 1994, Uppsala (Suedia), 12-15 iunie, vol.3, p.721-731.
- I35. S. Crețu, Gh. Prisăcaru, N. Mitu** - *The sliding velocities at rib-roller end contact in a cylindrical roller bearing*, VAREHD'94, 7-th Conference on EHD Lubrication and Traction, Suceava, 2-7 June, 1994.
- I36. Gh. Prisăcaru, D. Răileanu** - *Evaluarea deteriorării unsoirii din rulmenți utilizând metoda microscopiei electronice*, Conferința națională TRIBOTEHNICA'90, Cluj-Napoca, 27-29 sept. 1990, vol. 2, p. 257-262
- I37. M. Gafițanu, D. Olaru, Gh. Prisăcaru, F. Farcaș** - *Un model general de deteriorare a unsoirilor*, Conferința națională TRIBOTEHNICA'90, Cluj-Napoca, 27-29 sept. 1990, vol. 2, p. 187-194
- I38. D. Olaru, Gh. Hagiu, Gh. Prisăcaru, A. Patrichi, V. Botezatu** - *Cercetări privind creșterea fiabilității broșelor și a electrobroșelor pentru rectificat alezaje. Partea a II-a: Durabilitatea rulmenților în corelație cu ungerea și pretensionarea*, Conferința națională TRIBOTEHNICA'90, Cluj-Napoca, 27-29 sept. 1990, vol. 3, p. 317-324.
- I39. Gh. Prisăcaru, D. Olaru** - *Regimuri de ungere în rulmenți. Metode de apreciere*, Sesiunea jubiliară de comunicări științifice a I.P. Iași, 10-12 nov. 1988, vol. IX, secțiunea XIX: Rulmenți-probleme tribologice, p.421- 425.
- I40. Gh. Secuiu, A. Patrichi, V. Botezatu, Gh. Prisăcaru** - *Cercetări privind asimilarea de electrobroșe la CFS Iași*, Sesiunea jubiliară de comunicări științifice a I.P. Iași, 10-12 nov. 1988, vol. IX, secțiunea XIX: Rulmenți-probleme tribologice, p.299-301.
- I41. Gh. Secuiu, A. Patrichi, D. Olaru, Gh. Prisăcaru** - *Particularități privind montarea rulmenților la broșele de rectificat*, Sesiunea jubiliară de comunicări științifice a I.P. Iași, 10-12 nov. 1988, vol. IX, secțiunea XV: Organe de mașini, p.159-162
- I42. D. Olaru, Gh. Hagiu, Gh. Prisăcaru, A. Patrichi, V. Botezatu** - *Cercetări privind fiabilitatea broșelor de rectificat fabricate la CFS Iași (partea a II-a)*, Conferința națională TRIBOTEHNICA'87, București, 1987, vol.IV, p.25-30
- I43. M. Gafițanu, D. Olaru, Gh. Prisăcaru, Gh. Hagiu** - *Comportarea unor unsoiri utilizate la ungerea rulmenților de turație ridicată (partea a II-a, Durabilitatea unsoirilor)*, Conferința națională TRIBOTEHNICA'87, București, 1987, vol.V, p.293-298
- I44. D. Olaru, M. Hantelmann, Gh. Prisăcaru, F. Grigorescu** - *Determinarea caracteristicilor de tracțiune pentru unele unsoiri utilizate la rulmenți*, Conferința națională TRIBOTEHNICA'87, București, 1987, vol. III, p.113-11
- I45. M. Gafițanu, Gh. Prisăcaru, M. Hantelmann** - *Metodă și echipament pentru aprecierea regimului de ungere în rulmenți la turații înalte*, Conferința națională TRIBOTEHNICA'87, București, 1987, vol. III, p. 351-357
- I46. D. Olaru, Gh. Hagiu, Gh. Prisăcaru, A. Patrichi, V. Botezatu** - *Cercetări privind creșterea fiabilității broșelor de rectificat fabricate la CFS Iași (partea I-a)*, Simpozionul TEHNOMUS'87, iunie 1987, Suceava, partea I-a, p. 28-33.
- I47. Gh. Prisăcaru, I. Bercea, N. Mitu, S. Crețu** - *The analysis of the quasi-dinamic equilibrium in cylindrical roller bearings*, Proceedings of the 6-th Nordic Symposium on Tribology, NORDTRIB'94, 1994, Uppsala (Suedia), 12-15 iunie, vol.3, p.721-731
- I48. Gh. Prisăcaru, S. Crețu, I. Bercea** - *Friction in cylindrical roller bearings with combined load*, Proceedings of the Vth International Symposium: Tribological Problems in Exposed Friction Systems, INTERTRIBO'93, Bratislava (Slovak), 1993, August 26-28

J. Invenții.

J1. Brevet de invenție nr. 127562 A2 - RO-BOPI 6/2012, din 29.06.2012

Titlul brevetului : *Procedeu și microtribometru inerțial pentru studiul fenomenului de frecare de rostogolire*

Autori brevet : Olaru Dumitru, Stamate Vasile Ciprian, **Prisăcaru Gheorghe**, Ianuș Gelu

J2. Brevet de invenție nr. 127849 A2,- RO-BOPI 9/2012, din 28.09.2012

Titlul brevetului: *Microtribometru gravitațional pin-disc pentru studiul fenomenului de frecare de alunecare*

Autori brevet : Olaru Dumitru, Stamate Vasile Ciprian, **Prisăcaru Gheorghe**, Ianuș Gelu, Dumitrașcu Alina Corina

J3. Avram M., Bucșan, C., Bogatu, L., Besnea D., **Prisăcaru Ghe.**, DISTRIBUTOR PNEUMATIC PROPORTIONAL CU ACTUATOR ELECTROMECHANIC, RO129892 (A2), 2014; PROPORTIONAL PNEUMATIC DISTRIBUTOR WITH ELECTROMECHANICAL ACTUATOR Classification international: F15B13/04

K. Contracte de cercetare.

K1. Contract POSDRU/87/1.3/S/64069 - *FLEXFORM - Program de formare profesională flexibilă pe platforme mecatronice*

Finanțator: Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013

Beneficiar: Universitatea Tehnică din Cluj-Napoca

Partener 5: Universitatea Tehnică „Gheorghe Asachi” din Iași

Responsabil partener 5: conf.dr.ing. Gheorghe PRISĂCARU

Valoare (Partener 5): 1330825 RON

K2. PN II 1731 (contract fin.nr. 71-129/2007) „Sisteme mecatronice de acționare realizate cu noi tipuri de actuatori pentru aplicații în robotica și în alte domenii”

Finanțator: UEFISCDI

Coordonator: Universitatea Tehnică din Cluj-Napoca

Partener 2: Universitatea Tehnică „Gheorghe Asachi” din Iași

Responsabil partener 2: conf.dr.ing. Gheorghe PRISĂCARU

Valoare (Partener 5): 131086 RON

K3. Proiect cod nr. 116/2000 - Laboratorul multidisciplinar - mijloc de eficientizare a instruirii practice a studenților

Finanțator: CNFIS

Contractor: Universitatea Tehnică „Gheorghe Asachi” din Iași

Director proiect: conf.dr.ing. Gheorghe PRISĂCARU

Valoare: 5000 \$(3790€)

K4. Contract nr. 40222 / 2003, tema 17 cod CNCSIS 830 (suplimentat pe 2004 prin contr.nr. 33371/004, tema 32 cod CNCSIS 830): *Studiul tribologic al contactului capat rola-umar de ghidare in rulmenti cu role cilindrice sub sarcina combinata pe perioada rodajului*

Finanțator: CNCSIS

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director grant: conf.dr.ing. Gheorghe PRISĂCARU

Valoare: 112500000ROL (2197 €)

K5. Contract 6177/2000, act adit. 1/10.11.2000 - *Studiul tribologic al sistemelor de ghidare liniare cu rostogolire*

Finanțator: ANSTI

Contractor: Universitatea Tehnică „Gheorghe Asachi” din Iași

Director grant: conf.dr.ing. Gheorghe PRISĂCARU

Valoare: 45800000 ROL (2996 €)

K6. Grant 33/2007 – *Polimerii electroactivi (PEA) – o noua clasa de actuatori neconventionali*

Finanțator: CNCSIS

Contractor: Universitatea Tehnică „Gheorghe Asachi” din Iași

Director grant: conf.dr.ing. Gheorghe PRISĂCARU

Valoare: 128000 RON

K7. Proiect Leonardo PL 91229/EX din 1994 cu tema „Instruirea ingineriasca de tip mecatronic – o necesitate in societatea informationala (*Engineering training of mechatronic type – a necessity for the informational society*)”

Finanțator: Agenția Națională Leonardo - România

Contractor: Universitatea Tehnică „Gheorghe Asachi” din Iași

Director proiect: conf.dr.ing. Gheorghe PRISĂCARU

Valoare: 10980 €

K8. Contract nr. 4286/1990 - *Studii și cercetări privind fiabilitatea rulmenților funcționând în condiții de mediu contaminat*

Finanțator: Intreprinderea de Rulmenți Bârlad

Contractor: Universitatea Tehnică „Gheorghe Asachi” din Iași

Director proiect: conf.dr.ing. Gheorghe PRISĂCARU

Valoare: 90000lei (4091\$)

K9. POSDRU/87/1.3/S/61397 - Rețea Națională de Formare CONTinuă a CadrelOR Didactice din Învățământul Preuniversitar Profesional și Tehnic – CONCORD

Finanțator: Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013

Beneficiar: Universitatea “Politehnica” București

Partener 2: Universitatea Tehnică „Gheorghe Asachi” din Iași

Expert operațional (expert pe termen lung) responsabil domeniul inginerie mecanică (partener 2): conf.dr.ing. Prisăcaru Gheorghe

Valoare contract: 753844 (RON)

K10. PROGRAM PN II – IDEI cod ID 607 -2009, contract 381/2007 *Cercetări privind reducerea frecării în microsisteme mecatronice*

Autoritatea Contractanta - UEFISCSU

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Olaru DUMITRU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 129850 RON

K11. PROGRAM PN II – IDEI cod ID 607 -2008, contract 381/2007 *Cercetari Privind Reducerea Frecarii In Microsisteme Mecatronice*

Autoritatea Contractanta - UEFISCSU

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Olaru DUMITRU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 355505 RON

K12. PROGRAM PN II – IDEI cod ID 607 -2007, contract 381/2007 *Cercetari Privind Reducerea Frecarii In Microsisteme Mecatronice*

Autoritatea Contractanta - UEFISCSU

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Olaru DUMITRU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 141400 RON

K13. Contract nr. 33371/2004, tema 37, cod CNCSIS 537- Cercetari privind fiabilitatea sistemelor mecatronice in corelatie cu procesele macro-, micro- si nanotribologice

Autoritatea Contractanta - UEFISCSU

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Olaru DUMITRU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 100000000 ROL (2760 €)

K14. Contract nr.35259 /2001, tema 48 cod CNCSIS 282 (3 ani: 2001-2003) – *Cercetari privind fiabilitatea sistemelor de ghidare liniare cu rostogolire in corelatie cu procesele tribologice si precizia de functionare*

Autoritatea Contractanta - UEFISCSU

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Olaru DUMITRU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 105000000 ROL (4034 €)

K15. Contract 6182/25.10.2000, tema B2/2000 – *Polimeri cu structuri si arhitecturi speciale. Corelatii sinteza-structura-proprietati.*

Beneficiar : ANSTI

Contractor: Institutul de Chimie macromoleculara P. Poni, Iasi

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU (in calitate de colaborator extern - P.Poni)

Valoare contract: 33000000 lei (1784 \$)

K16. Contract nr. 12102/29.07.97, tip D, cod CNCSU 171, tema 32:*Asigurarea calitatii si fiabilitati in ingineria mecanica in corelatie cu conceptele moderne privind deteriorarile de natura tribologica si prin oboseala mecanica* - finanțat de Bancamondială

Autoritatea Contractanta - CNCSU cu finantare de la Banca Mondiala

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Spiridon CRETU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 60000 \$ (53700 €)

K17. Contract 7002/97, tema nr.42, grant 1417 (3 ani:1995-1997) -*Cercetari privind dinamica contactelor cu rostogolire în conditii de ungere EHD cu aplicatii la optimizarea geometriei interne a rulmentilor cu role cilindrice si conice pentru sarcini combinate si turatii ridicate*

Autoritatea Contractanta - CNCSU

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Spiridon CRETU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 12000000 ROL (1483 €)

K18. Contract nr. 161/97, pozitia B9 (3 ani: 1997-1999) - *Rulmenti cu role cilindrice pentru încărcari combinate si turatii ridicate*

Autoritatea Contractanta - MCT

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Spiridon CRETU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 11500000 ROL (1421,5 €)

K19. Contract nr. 161/96, pozitia A6 (2 ani:1997-1998)- *Optimizarea constructiei interne a rulmentilor radial-axiali cu role conice în conditii de sollicitare limitasi turatii ridicate*

Autoritatea Contractanta - MCT

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Spiridon CRETU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 9000000 ROL(2330 €)

K20. Contract nr. 7463/94 - *Optimizarea asistata de calculator a cinematicii si dinamicii tribosistemelor de rostogolire*

Autoritatea Contractanta - MIS

Contractor: Universitatea Tehnică „Gh. Asachi” din Iași

Director proiect : prof. dr ing. Dumitru OLARU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 4500000 ROL (2288 €)

K21. Contract nr. nr. 1428 / 2001 - Studii si masuratori asupra bunurilor prezentate de beneficiar (eliberare certificat)

Beneficiar: Tehnoconsult S.R.L. Barlad

Responsabil de proiect : prof.dr.ing. Spiridon CRETU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 46000000 ROL (1768 €)

K22. Contract nr. 275P/15.04.2013 – *Analiza cauzelor care conduc la distrugerea prematură a sistemelor de asigurare a gurilor de acces in sistemele de alimentare cu apă și canalizare și găsirea unor soluții eficiente de închidere a gurilor de acces*

Beneficiar: SC INSTCOMP SA , cu sediul în Suceava, str. Gr. Ureche, nr. 19

Responsabil de proiect :s.l.dr.ing. Ianus Gelu

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 23.000lei + 5520 lei TVA= 28520 lei.

K23. Contract nr. 10697/1988 - *Probe, verificari si elaborarea de buletine de omologare utilaje*

Beneficiar: Combinatul de Fibre Sintetice Iasi

Responsabil de proiect : prof.dr.ing. Dumitru OLARU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 324000 lei (23142,85\$)

K24. Contract nr. 4574/1988 - *Optimizarea proiectarii rulmentilor si cresterea performantelor calitative ale acestora*

Beneficiar: CIROA Brasov

Responsabil de proiect : prof.dr.ing. Mihai GAFITANU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 1500000 lei (107142 \$)

K25. Contract nr. 3114/1986 – *Cresterea performantelor calitative ale diferitelor medii de ungere*

Beneficiar: CIROA Brasov

Responsabil de proiect : prof.dr.ing. Mihai GAFITANU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 300000lei (18750 \$)

K26. Contract nr. 2506/1985 - *Proiectarea asistata de calculator a organelor de masini*

Beneficiar: Combinatul de Utilaj Greu Iasi

Responsabil de proiect : prof.dr.ing. Mihai GAFITANU

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 250000lei (14705 \$)

K27. Contract nr. 3130/1985 - *Stand pentru probe cinematice*

Beneficiar: Combinatul de Utilaj Greu Iasi

Responsabil de proiect : prof.dr.ing. Cezar DUCA

Membru colectiv cercetare: conf.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 300.000 lei (17647 \$)

K28. Proiect transfrontalier: 2SOFT/1.1/64 – CBCinMEE Cross border cooperation in mechatronics engineering education –(2020-2022)

Beneficiar lead: Universitatea Tehnică a Moldovei

Beneficiary 1: Universitatea Tehnică Gheorghe Asachi din Iași

Responsabil de proiect : conf.dr.ing. Gelu Ianuș

Membru colectiv cercetare: prof.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 167777 Euro

K29. Proiect transfrontalier: 2SOFT/1.1/11 – CROSSCOMP Cross-Border Regional Hub of Competences for the Automotive Industry – (2020-2022)

Beneficiar lead: Universitatea Tehnică Gheorghe Asachi din Iași

Beneficiary 1: Universitatea Tehnică a Moldovei

Beneficiarz 2:

Beneficiary 3: Universitatea Agrara de Stat din Moldova

Responsabil de proiect : conf.dr.ing. Nicolae Lucanu

Membru colectiv cercetare: prof.dr.ing. Gheorghe PRISĂCARU

Valoare contract: 286718 Euro

L.Premii, distincții.

M. Alte realizări semnificative.

Data,

30.01.2026

Nume, semnătura
Prof.dr.ing. Gheorghe PRISĂCARU

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

SĂLCEANU ANDREI

A. Teza de doctorat

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. **2016** I Nica, V David, I Pavel, **Andrei Sălceanu**
Automatic long term survey of magnetic fields in residential areas. Instrumentation and measurements.
Environmental Engineering & Management Journal (EEMJ) 15, Pag 26-28
DOI: 10.30638/eemj.2016.289
EID: 2-s2.0-85028453266
2. **2016** E Lunca, S Ursache, **Andrei Sălceanu**
Assessment of radiofrequency exposure levels generated by wimax base stations.
Environmental Engineering & Management Journal (EEMJ)
Pag 2753-2759
DOI: 10.30638/eemj.2016.302
EID: 2-s2.0-85028456961
3. **2015** Silviu Ursache, **Andrei Sălceanu**, Oana Neacșu
Measuring the electric and magnetic fields associated with the electrostatic discharges
Buletinul Institutului Politehnic din Iași
Pag 133-140
4. **2015** Marius Valerian Păuleț, Oana Maria Neacșu, **Andrei Sălceanu**
Secured access system based on the recognition of ecg characteristics
Buletinul Institutului Politehnic din Iași
Pag 21-28

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

1. **2025** **Andrei Sălceanu**, M. Temneanu, B. Giurcanu, C. Lăzărescu, S. Vornicu and S. Ursache, "Considerations on Experimental Determinations of the Specific Absorption Rate Data for a Multi-Band Mobile Phone," *2025 International Conference on Electromechanical and Energy Systems (SIELMEN)*, Iasi, Romania, 2025, pp. 651-657,
DOI: 10.1109/SIELMEN67352.2025.11260651

2. **2025 Andrei Sălceanu**, E. Lunca and O. M. Asiminicesei, "Specific Absorption Rate: Comparative Analysis from the Perspective of Terms, Methodologies, and Regulations," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 501-507,
DOI: 10.1109/SIELMEN67352.2025.11260778
3. **2025 R. Jahrstorfer, Andrei Sălceanu** and G. Balan, "Influence of Humidity and Temperature on Potential Induced Degradation from a Maintenance Perspective," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 513-517,
DOI: 10.1109/SIELMEN67352.2025.11260793
4. **2025 R. Jahrstorfer, Andrei Salceanu** and G. Balan, "Experimental Approaches to the Influence of Shunt Resistance on Potential Induced Degradations," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 518-524,
DOI: 10.1109/SIELMEN67352.2025.11260788
5. **2025 P. C. Oprea, Andrei Sălceanu**, M. V. Păuleț and M. C. Moruz, "Approach to Floral Digital Models from a SAR Perspective," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 484-489,
DOI: 10.1109/SIELMEN67352.2025.11260690
6. **2025 P. C. Oprea, M. V. Păuleț and Andrei Sălceanu**, "Study on Adult-Child Differences from the Perspective of Radiofrequency Electromagnetic Energy Absorption," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 1-6,
DOI: 10.1109/SIELMEN67352.2025.11260562
7. **2025 G. Bălan, E. Serea and Andrei Sălceanu**, "A Cost-Effective Continuous Thermal Monitoring Solution for Electrical Panels Using Thermocouples," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 466-471,
DOI: 10.1109/SIELMEN67352.2025.11260682
8. **2025 M. C. Moruz, S. C. Vornicu, P. C. Oprea and Andrei Sălceanu**, "Evaluation of Disturbing Electromagnetic Emissions Produced by an Electrosurgery Unit," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 669-673,
DOI: 10.1109/SIELMEN67352.2025.11260748
9. **2016 MV Paulet, Andrei Sălceanu**, OM Neacsu "*Ultrasonic radar*"
2016 International Conference and Exposition on Electrical and Power Engineering (EPE)
Pag 551-554
DOI: 10.1109/ICEPE.2016.7781400
EID: 2-s2.0-85010460379
10. **2016 S Ursache, Andrei Sălceanu**, O Neacsu
Indoor and outdoor measurements of the low frequency magnetic fields in an urban area
2016 International Conference and Exposition on Electrical and Power Engineering (EPE),
Pag 376-379
DOI 10.1109/ICEPE.2016.7781366
Scopus index EID 2-s2.0-85010450424
11. **2015 MV Paulet, Andrei Sălceanu**, Alexandru Salceanu
Automatic recognition of the person by ECG signals characteristics
2015 9th International Symposium on Advanced Topics in Electrical Engineering (ATEE)
Pag 281-284
DOI: 10.1109/ATEE.2015.7133780
EID: 2-s2.0-84939531298

12. **2014** MV Paulet, OM Neacsu, **Andrei Sălceanu**
Wireless monitoring system of the heart rate
2014 International Conference and Exposition on Electrical and Power Engineering (EPE)
Pag 581-584
DOI: 10.1109/ICEPE.2014.6969976
EID: 2-s2.0-84919692308
13. **2014** Bogdan-Dumitru Alistar, **Andrei Sălceanu**, Gabriel Lupuleasa
Approach on simulating and measuring the SAR
2014 International Conference and Exposition on Electrical and Power Engineering (EPE)
Pag 437-441
DOI: 10.1109/ICEPE.2014.6969945
EID: 2-s2.0-84919665475
14. **2014** **Andrei Sălceanu**, Valeriu David, Ionut Nica
Monitoring the environment by enhancing the capabilities of a fleet tracking system
2014 International Conference and Exposition on Electrical and Power Engineering (EPE)
Pag 442-446
DOI: 10.1109/ICEPE.2014.6969946
EID: 2-s2.0-84919678458
15. **2014** Silviu Ursache, Marius Paulet, **Andrei Sălceanu**, Catalina Luca
Study upon the disturbing potential of TETRA electromagnetic traffic
2014 International Conference and Exposition on Electrical and Power Engineering (EPE)
Pag 433-436
DOI: 10.1109/ICEPE.2014.6969944
EID: 2-s2.0-84919665483
16. **2014** Oana-Maria Neacsu, Marius Valerian Paulet, **Andrei Sălceanu**
Expanding the functionality of an EMF spectrum analyzer with self-performed near field probes
2014 International Conference and Exposition on Electrical and Power Engineering (EPE)
Pag 784-788
DOI: 10.1109/ICEPE.2014.6970017
EID: 2-s2.0-84919623141

J. Invenții

K. Contracte de cercetare

L. Premii, distincții

M. Alte realizări semnificative

Data,
02.03.2026

Asist. drd. ing. Sălceanu Andrei

Lista de lucrări în domeniul de studii universitare de licență, *Inginerie electrică*

Numele și prenumele: **Monica Salcianu**

- A. **Teza de doctorat:** “*Cercetări privind îmbunătățirea metodelor de proiectare a rețelelor de comunicație din cadrul autovehiculelor*” U.T. Iași, 2012, 185 pg., îndrumător Prof.univ.dr.ing. CRISTIAN FOȘALĂU
- B. **Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate**
- C. **Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS**
- D. **Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.**
- E. **Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.**
- F. **Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.**
- G. **Lucrări științifice publicate în reviste din străinătate.**
- H. **Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.**
 - 1. **Sălcianu Monica**, Foșalău Cristian and Hariton Anamaria, *Simulation of an intelligent-adaptive front-lighting system*, Bul. Inst. Polit. Iași, t. LVII (LXI), f. 5, 2011, pp. 79-91.
 - 2. **Sălcianu Monica**, Foșalău Cristian and Hariton Anamaria, *A new can simulator for a rain sensing system using LabVIEW*, Bul. Inst. Polit. Iași, t. LVII (LXI), f. 5, 2011, pp. 69-78.
 - 3. Hariton Anamaria, Niță Lucian, Crețu Mihai and **Sălcianu Monica**, *Outer gate automation using microcontrollers and radio frequency communication*, Bul. Inst. Polit. Iași, t. LVII (LXI), f. 5, 2011, pp. 119-128.
 - 4. Hariton A., Crețu M., Niță L., **Sălcianu M.**, *Database security on remote patient monitoring system*, Bul. Inst. Polit. Iasi, t. LVII (LXI), f. 5, 2011, pp. 129-138
 - 5. **Salcianu Monica**, Anamaria Hariton and Cristian Zet, *A LED Matrix Manager snifer*, Bul. Inst. Polit. Iasi ,Volumul 68 (72), Numărul 2, anul 2022, pp. 9-20.
- I. **Lucrări științifice publicate în volumele conferințelor.**
 - II. *Articole în volumele conferințelor internaționale din țară*

1. **Sălcianu Monica**, Foşalău Cristian, *A new CAN diagnostic fault simulator based on UDS protocol*, Proceedings of the 7th Conference on Electrical and Power Engineering EPE 2012, Iaşi, October 25-27, 2012, pp. 820-824.
2. **Sălcianu Monica**, Foşalău Cristian and Hariton Anamaria, *Packaging data transmitted on the Controller Area Network*, Proceedings of the 6th Conference on Electrical and Power Engineering EPE 2010, Iaşi, October 28-30, 2010, vol. II, pp. 281-283.
3. **Sălcianu Monica**, Foşalău Cristian and Hariton Anamaria, *A digital library for building a Controller Area Network software driver*, Proceedings of the 6th Conference on Electrical and Power Engineering EPE 2010, Iaşi, October 28-30, 2010, vol. II, pp. 277-280.
4. Hariton Anamaria, Niţă Lucian, Creţu Mihai and **Sălcianu Monica**, *Microcontrollers and radio communication system*, Proceedings of the 6th Conference on Electrical and Power Engineering EPE 2010, Iaşi, October 28-30, 2010, pp. 89-92.
5. Hariton A., Niţă L., Creţu M., **Sălcianu M.**, *Patient telemonitoring application for diabetes*, Proceedings of the 6th Conference on Electrical and Power Engineering EPE 2010, Iaşi, October 28-30, 2010, pp. 131-134.

I2. Articole în volumele conferinţelor din străinătate

I3. Articole în volumele conferinţelor naţionale

J. Invenţii.

K. Contracte de cercetare ştiinţifică.

L. Premii, distincţii.

M. Alte realizări semnificative.

1.03.2025

Dr.ing. Sălcianu Monica

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Scarlatache Vlad Andrei

A. Teza de doctorat

“Contribuții privind dezvoltarea de tehnologii intersectoriale bazate pe optimizarea pierderilor electromagnetice în materiale nanocompozite de tip polimer – pulberi electroactive” , 2012, Universitatea Tehnică „Gheorghe Asachi”, Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată, Domeniul Inginerie Electrică, Conducător de doctorat Prof.dr.ing. Romeo Cristian Ciobanu

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. A. Caprile, M. Coïsson, F. Fiorillo, P. Kabos, O. M. Manu, E. S. Olivetti, M. A. Olariu, M. Pasquale, **V.A. Scarlatache**, *Microwave behaviour of polymer bonded Iron oxide nanoparticles*, jurnalul IEEE Transactions on Magnetics Volume: 48, Issue: 11, cu factor de impact 1.626 .OISSN: 0018-9464, pp. 3394 – 3397, DOI: 10.1109/TMAG.2012.2200462, 2012.
2. Fl. Scarlatache, Gh. Grigoras, **V.-A. Scarlatache**, B.-C-tin Neagu, and O. Ivanov. 2021. "A Hybrid Methodology Based on Smart Management Energy Consumption in Irrigation Systems" Electronics 10, no. 22: 2864, ISSN: 2079-9292. <https://doi.org/10.3390/electronics10222864>, (IF: 2.397)

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

1. S. Ursache, A.V. Neamtu, **V.A. Scarlatache**, A. Pruteanu, *Smart materials for enviromental and energy efficiency uses – Dielectric and Emc Behaviour*, lucrare publicată în cadrul conferinței The 9th WORLD ENERGY SYSTEM CONFERENCE WESC 2012 și în Buletinul AGIR, nr. 2/2012, indexată în baza de date INDEX COPERNICUS INTERNATIONAL, ISSN-L 1224-7928, ISSN online 2247-3548, pp. 775-780, 2012;
2. A. Pruteanu, **V.A. Scarlatache**, R.C. Ciobanu, G. Viziteu, *Thermal study of a superior lithium ion polymer battery*, lucrare publicată în cadrul conferinței The 9th WORLD ENERGY SYSTEM CONFERENCE WESC 2012 și în Buletinul AGIR, nr. 2/2012, indexată în baza de date INDEX COPERNICUS INTERNATIONAL, ISSN-L 1224-7928, ISSN online 2247-3548, pp. 123-128, 2012.
3. **V.A. Scarlatache**, R.C. Ciobanu, M. Pasquale, A. Pruteanu, *Multi-walled carbon nanotube effect on dielectric properties of polymer matrices*, lucrarea publicată în cadrul simpozionului 4th International Symposium on Electrical Engineering and Energy Converters și în Buletinul AGIR

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4. S. Ursache, R.C. Ciobanu, **V.A. Scarlatache**, A. Niagu, *Dielectric and electromagnetic behavior of conductive nanocomposites polymers: PP/MWCNT investigations for EMI applications*, Advanced Engineering Forum Online: 2013-06-27, ISSN: 2234-991X, Vols. 8-9, pp 353-360, doi:10.4028/www.scientific.net/AEF.8-9.353

A. Lucrări științifice publicate în volumele conferințelor.

1. F. Scarlatache, G. Grigoraș, B. -C. Neagu, **V. A. Scarlatache** and N. Asavei A Comparative Study of Hybrid PV–Hydrogen and PV–Battery Storage Systems for Optimal Planning of Stand-Alone Microgrids, 12th International Conference on ENERGY and ENVIRONMENT (CIEM) 2025;
2. **V. -A. Scarlatache**, O. M. Andrei, F. Scarlatache, S. Aradoaei, T.A. Filip and M. P. Simion,, Modeling and Simulation of Regenerative Braking Systems Using MATLAB System Composer and Simulink, „2025 International Conference on Electromechanical and Energy Systems (SIELMEN);
3. F. Scarlatache, G. Grigoraș, **V. A. Scarlatache**, B. -C. Neagu and M. -A. Baci, "Using Hybrid PV-Hydrogen Storage Systems in Optimal Planning of Microgrids," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 556-559, doi: 10.1109/EPEi63510.2024.10758028.
4. **V. -A. Scarlatache**, O. M. Andrei, F. Scarlatache, S. Aradoaei, R. Simionescu and M. P. Simion, "Analysis of Coil Characteristics Using Modern Measurement Techniques," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 595-598, doi: 10.1109/EPEi63510.2024.10758089.
5. A. M. Lucaci, **V. Scarlatache**, R. Ciobanu and D. N. Iordachescu, "Experimental Equipment for Anisotropic Nanoconductive Films Manufacturing," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 257-260, doi: 10.1109/EPEi63510.2024.10758151.
6. **V. -A. Scarlatache**, S. Aradoaei, M. A. Olariu, F. Scarlatache, T. A. Filip and R. Simionescu, "Electric Vehicle Architecture Modeling Based on MATLAB and SysML for Discrete and Continuous Simulation," 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Romania, 2023, pp. 1-5, doi: 10.1109/SIELMEN59038.2023.10290735.
7. F. Scarlatache, G. Grigoraș, **V. A. Scarlatache** and V. Dandea, "Digital Twin-based Decision-Making Methodology for the Optimal Operation of Microgrids," 2023 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2023, pp. 1-5, doi: 10.1109/MPS58874.2023.10187426.
8. T.A. Filip, I. Turcan, **V.A. Scarlatache**, A. Dragomir, M.A. Olariu, "Electric Field Numerical Modeling and Simulation of V-Shaped Interdigitated Microelectrodes", 8th International Conference on Engineering and Emerging Technologies, ICEET 2022, doi: 10.1109/ICEET56468.2022.10007144, 2022.
9. **V. A. Scarlatache**, Aradoaei S., Olariu M., Filip T.A., Scarlatache F., Gheorghian G., "Continuous Improvement in Education Based on Deming Model in Worldwide Context", 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), DOI: 10.1109/EPE56121.2022.9959078, 2022.
10. **V.-A.Scarlatache**, Olariu M., Aradoaei S. and Filip T.A., "An Overview on Nonvolatile Memories Used in Automotive Industry," 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 517-520, doi: 10.1109/SIELMEN53755.2021.9600442, 2021.
11. M. Olariu, **V.A. Scarlatache**, A. Niagu, S. Ursache, R.C. Ciobanu, The Influence of Frequency and Temperature upon Dielectric Behavior of Polypropylene reinforced with Multi-walled Carbon Nanotubes (MWCNTs), lucrarea publicată în cadrul conferinței 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM 2012) și indexată în baza de date IEEE Xplore Digital Library, ISSN : 1842-0133, E-ISBN : 978-1-4673-1652-1, Print ISBN: 978-1-4673-1650-7, DOI: 10.1109/OPTIM.2012.6231902, pp. 287 – 292, 2012.

12. **V.A. Scarlatache**, M. Olariu, S. Ursache, R.C. Ciobanu, M. Pasquale, *Magnetic and dielectric losses of a nanocomposites polymer matrix reinforced with ferromagnetic powders*, lucrare publicată în cadrul conferinței International Conference and Exposition on Electrical and Power Engineering (EPE 2012), 25-27 October, Iasi, Romania și indexată IEEE, ISBN: 978-1-4673-1172-4, pp. 125-128, 2012;
13. **V.A. Scarlatache**, A. Niagu, D. Matasaru, R.C. Ciobanu, B. Martorana, *Modification of dielectric properties, after barium titanate nanoparticles sintering, from a thermoplastic polymer matrix*, lucrare publicată în cadrul conferinței International Conference and Exposition on Electrical and Power Engineering (EPE 2012), 25-27 October, Iasi, Romania și indexată IEEE, ISBN: 978-1-4673-1172-4, pp. 94-99, 2012;
14. D. Matasaru, **V.A. Scarlatache**, A. Pruteanu, B. Florean, G. Viziteu, *Analysis of dielectric loss at high frequency, for a nanocomposite polymer matrix, based on polypropylene with insertion of Multi-walled Carbon Nanotubes (MWCNTs)*, lucrare publicată în cadrul conferinței International Conference and Exposition on Electrical and Power Engineering (EPE 2012), 25-27 October, Iasi, Romania și indexată IEEE, ISBN: 978-1-4673-1172-4, pp. 116-119, 2012.
15. A. Niagu, **V.A. Scarlatache**, S. Ursache, G.M. Moraru, *An overview of smart conductive adhesive*, lucrare publicată în cadrul conferinței International Conference and Exposition on Electrical and Power Engineering (EPE 2012), 25-27 October, Iasi, Romania și indexată IEEE, ISBN: 978-1-4673-1172-4, pp. 88-93, 2012;
16. **V.A. Scarlatache**, M. Ursan, R.C. Ciobanu, *Dielectric Properties Characterization of Conductive Polymeric Materials at Temperature and Frequency Variation*, lucrarea publicată în cadrul conferinței 12th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM 2010) și indexată în baza de date IEEE Xplore Digital Library, ISSN : 1842-0133, Print ISBN: 978-1-4244-7019-8, DOI: 10.1109/OPTIM.2010.5510370, pp. 208 – 213, 2010.
17. S. Ursache, M. Aradoaei, A. Niagu, **V.A. Scarlatache**, *Electromagnetic Shielding- Numerical Approach and Some Complementary Applications for Increase the Energy Efficiency of Buildings*, Proceedings of the 8th International Conference on Electromechanical and Power Systems - SIELMEN 2011, pp. 309-314, 2011.
18. **V.A. Scarlatache**, S.G. Flutur, M. Ursan, M. Olariu, D. Ciurea, *An overview of standardization in the field of electromagnetic compatibility for the railway industry*, EPE 2010 - 6th International Conference of Electrical and Power Engineering, ISBN: 978-606-13-0077-8, pp. 303-308, 2010;
19. A. Pruteanu, **V.A. Scarlatache**, G.A. Ursan, R. Rusei, *A brief overview on supercapacitors and theirs possible applications*, EPE 2010- 6th International Conference of Electrical and Power Engineering, ISBN: 978-606-13-0077-8, pp 367-370, 2010;
20. M. Ursan, G.A. Ursan, **V.A. Scarlatache**, R. Rusei, *Practical method for detecting defects in conductive materials*, EPE 2010 - 6th International Conference of Electrical and Power Engineering, ISBN: 978-606-13-0077-8, pp. 363-366, 2010;
21. S. Georgel Flutur, **V.A. Scarlatache**, A. Pruteanu, D. Ciurea, *Analysis of the electromagnetic field created by power stations rail*, EPE 2010 - 6th International Conference of Electrical and Power Engineering, ISBN: 978-606-13-0077-8, pp. 329-332, 2010;
22. M. Ursan, G.A. Ursan, **V.A. Scarlatache**, R. Ciobanu, *Non Destructive 3-D Investigation of Nanocomposites Materials*, 1-st IMEKO TC 19 International Symposium on Measurement and Instrumentation for Environmental Monitoring, IMEKO 2010, Kosice, Slovakia, 8-10 Septembrie, ISBN 978-80-553-0424-3, pp. 45, 2010;
23. **V.A. Scarlatache**, A. Pruteanu, R.C. Ciobanu, *Caracteristici dielectrice ale polimerilor nanoconductivi folosiți în aplicații EMC*, Al II-lea Simpozion Științific Studentesc Național - ELStudIS2010, ISBN: 978-606-13-0066-2, pp 173-177, 2010;
24. A. Pruteanu, **V.A. Scarlatache**, R.C. Ciobanu, *Considerații generale asupra supercondensatoarelor*, Al II-lea Simpozion Științific Studentesc Național - ELStudIS2010, ISBN: 978-606-13-0066-2, pp 179-183, 2010;
25. A. Pruteanu, **V.A. Scarlatache**, R.C. Ciobanu, *Noțiuni teoretice și utilizări ale supercondensatoarelor în domeniul electric*, Simpozionul Național de Electrotehnică Teoretică - SNET, ISSN 2067-4147 (online), 2010;

J. Invenții

K. Contracte de cercetare

Director de proiect strat-up, numar P -38_820/2015, cu titlul CONSOLIDAREA CAPACITĂȚII SC PROSUPPORT CONSULTING SRL DE EXPLOATARE, INTRODUCERE ÎN PRODUCȚIE ȘI COMERCIALIZARE A UNUI PRODUS INOVATIV REZULTAT AL ACTIVITĂȚII DE CERCETARE-DEZVOLTARE.

Director de proiect „Model conceptual inovativ de platformă electrochimică imprimată pe bază de particule de Mxene” Apel : PRNE/534/PRNE_P1/OP1/RSO1.1/PRNE_A25, 2025

L. Premii, distincții

M. Alte realizări semnificative

Data, 17.03.2026

S.L. dr. ing. Scarlatache Vlad Andrei

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Prof. dr. ing. Cristina Schreiner

A. Teza de doctorat.

1. Modelarea stărilor de defectare ale unui sistem electromecanic echipat cu m.l.i. utilizând rețele neuro-fuzzy, Universitatea Tehnică "Gh.Asachi" din Iași, 1998, 192 pg

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

1. CALITATEA IN INDUSTRIE SI SERVICII - DE LA DEFINIRE, LA TEHNICI MODERNE DE ASIGURARE, Ciobanu R., Schreiner C., 148 pag., 1999 (2002), Ed. Magnum Pres Iasi, Romania, ISBN 973-5632-99-4,
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J. Invenții.

K. Contracte de cercetare/granturi - Director de proiect

1. PNIII - ERANET, MANUNET-III nr. 149/2020, Biosenzori bazati pe arhitecturi nanofluidice pentru detectia proteinelor umane, 2020-2022, 535.700lei, Director de proiect
2. ERANET-EURONANOMED nr. 193/2020: Membrane nanoporoase pentru pseudolivrarea intratecala a medicamentelor, 2020-2023, 432.250lei, Membru în echipa de cercetare
3. CAPACITATI, Modul III, Proiect Bilateral Ro – Austria, nr. 553/2012: Dezvoltarea de senzori integrați folosind tehnologia LTCC pentru aplicații în domenii ca: medicină, securitate și mediu
4. CAPACITATI, Modul III, Proiect Bilateral Ro – Cipru, nr. 436CB/2011: Compozite polimerice nano-active avansate cu metale rare și oxizi metalici, pentru aplicații în microelectronică în domeniul GHz
5. Low-cost and energy-efficient LTCC sensor/IR-UWB transceiver solutions for sustainable healthy environment (SENSEIVER) FP7-PEOPLE-2011-ITN GA-289481
6. Era Net, MANUNET, nr. 7-038/2011: Dezvoltarea de bio-senzori prin intermediul unei tehnologii inovative de electroacoperire a structurilor carbonice cu polimeri active CARBIOSENSE
7. M-Era Net INCERSEN nr. 1132/2015, Integrated sensors with microfluidic features using LTCC technology

8. GRANT DE TIP A CU CNCSIS: PLATFORME VIRTUALE SI DISTRIBUITE PENTRU DESIGN-UL, MONITORIZAREA PERFORMANTELOR SI DIAGNOZA SISTEMELOR ELECTROMECHANICE
9. DEZVOLTAREA CAPACITĂȚII DE INTEGRARE A ROMANIEI ÎN CADRUL PROGRAMELOR, PLATFORMELOR ȘI REȚELELOR EUROPENE IN DOMENIUL SISTEMELOR VIRTUALE SI DISTRIBUITE DE DESIGN SI MANAGEMENT AL CERCETARII, CEEX M3 / CNMP, 188/2006
10. PNIII - ERANET, COFUND-MANUNET, nr. 17/2018, Îmbunătățirea tehnologiilor de printare pentru fabricarea economica a sistemelor de analiză tip Point of Care
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L. Premii, distincții.

M. Alte realizări semnificative.

Data, 28.02.2026

Prof. dr. ing. Cristina Mihaela Schreiner

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

SIMIONESCU RAMONA PETRONELA

A. Teza de doctorat

Cercetări privind realizarea de ecrane și panouri absorbante bazate pe compozite nano-structurate cu arhitectură predefinită și proprietăți electromagnetice în domeniul GHz susținută în data de 08.10.2010, Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul Inginerie Electrică, conducător de doctorat Prof. Dr. Ing. Ciobanu Romeo Cristian

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

C1. **Simionescu R.**, *Aspecte teoretice și practice privind realizarea de ecrane și panouri absorbante bazate pe compozite nano-structurate*, Editura PIM, Iași, 2023, ISBN:978-606-13-8066-4

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

F1. Neamtu V. A., **Burlacu R.**, Bratescu C., Ursache S., *New Assembling-Disassembling Technology Using Electromagnetically Active Adhesives-Dielectric Behaviour*, International Journal of Computer Theory & Engineering, 2013, Vol.5, Nr. 4, ISSN: 1793-8201;

F2. Bratescu C., **Burlacu R.**, Ciobanu R., Krasia-Christoforou T., Neamtu V., *Dielectric characteristics of novel hybrid materials consisting of functional block copolymers and metal oxide nanoparticles at temperature and frequency variation*, Annals of the University of Craiova, Seria Inginerie electrica 2011; 35(35):59-64, ISSN 1842-4805;

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

H1. Damian R., **Burlacu R.**, Socotar D., Flutur S., *Localized thermal effect of microwave energy dissipation of chiral based electromagnetic shields*, Buletinul Institutului Politehnic din Iași, Tomul LVII (LXI), fasc. 1, 2011, pp. 49-59, Secția Electrotehnică, energetică, electronică;

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H3. Pislaru M., Trandabat A., Bratescu C., **Burlacu R.**, Aradoaie S. and Branzila M., *Internet based distributed methods in support of remote and collaborative design*, Buletinul Institutului Politehnic Iași, Tomul LIV (LVIII), Fasc 4, 2008, pp 635-642, ISSN 1223-8139;

H4. Ciurea, D., Rusei, R., **Burlacu, R.**, *Project quality management within services*, Buletinul Institutului Politehnic Iași, 2008, Tomul LIV (LVIII), Fasc. 3, Electrotehnică, Energetică, Electronică, pp. 441-446, ISSN 1223-8139;

H5. Seliman C., Costineanu D., Bratescu C., **R. Burlacu**, Improving the Selectivity of Electrochemical Sensors by Compensating Interference Errors –Buletinul Institutului Politehnic Iași, Tomul LIV(LVIII), Fasc. 3, 2008, pp.357-362, ISSN 1223-8139.

I. Lucrări științifice publicate în volumele conferințelor

I1. Vatavu C, Dărăbant L., **Simionescu R.**, *The impact of schedule structure on engineering student performance*, 34th Annual Conference of the European Association for Education in Electrical and Information Engineering, iunie 2025, Cluj Napoca, Romania (indexată IEEEExplore);

I2. Scarlatache V.A.; Olariu M., Scarlatache F., Aradoaei S., **Simionescu R.**, Simion M.P. *Analysis of Coil Characteristics Using Modern Measurement Techniques*, 13th International Conference And Exposition On Electric And Power (EPEI), 2024 (indexata IEEEExplore);

I3. Scarlatache V. A., Aradoaei S., Olariu M.A., Scarlatache F., Filip T. A., **Simionescu R.**, *Electric Vehicle Architecture Modeling Based on Matlab and SysML for Discrete and Continuous Simulation*, 14th International Conference on Electromechanical and Energy Systems, Craiova-Chișinău, 2023 (indexata IEEEExplore);

I4. Adrian D.N. Saridache, D.O. Schreiner; T.G. Schreiner, A. Trandabat, **R. Simionescu**, A. Arcire, *ISense - Parkinson's symptoms monitoring module based on inertial measuring units sensors*, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), DOI: 10.1109/EPE56121.2022.9959827, ISBN: 978-1-6654-8994-2(indexata IEEEExplore);

I5. João Monge, Octavian Postolache, Alexandru Trandabat, Stefan Macovei, **Ramona Burlacu**, *Mobile Potentiostat IoT Compatible*, 2019 International Conference on Sensing and Instrumentation in IoT Era (ISSI), Lisabona, Portugalia, ISBN 978-1-7281-1023-3 (indexata IEEEExplore);

I6. Bratescu, C., **Burlacu, R.**, Neamtu, VA, Ciobanu, R., *Dielectric Characterization of New Concept of Nano-Structured Adhesives Electromagnetically Active*, Proceedings of the 2012 International Conference and Exposition on Electrical and Power Engineering (EPE 2012), 2012, Pp. 112-115, IEEE Catalog number: CFP1247S-DVD, ISBN: 978-1-4673-1171-7 (indexată Scopus);

I7. Schreiner, C., Krasia-Christoforou, T., Bratescu, C., **Burlacu, R.**, Demetriou, M., Savva, I., Ciobanu, R., *Development of electrochemical nano-biosensors with distributed metal particles*, 19th IMEKO TC4 Symposium - Measurements of Electrical Quantities 2013 and 17th International Workshop on ADC and DAC Modelling and Testing, Pp. 255-258, ISSN:1886-4864 (indexată Scopus);

I8. **Burlacu R.**, Bratescu C., Ciobanu R., *Evaluation of dielectric properties of polysulphone containing magnetite for electromagnetic shields optimization*, Proceedings of 17th Symposium IMEKO TC4 - Measurement of Electrical Quantities, 15th International Workshop on ADC Modelling and Testing, and 3rd Symposium IMEKO TC19 - Environmental Measurements, 2010, Pp. 379-283 (indexată Scopus);

I9. Bratescu C., **Burlacu R.**, Ursache S., Ciobanu R., *Virtual instrumentation for smartphones*, 16th IMEKO TC4 Int. Symp.: Exploring New Frontiers of Instrum. and Methods for Electrical and Electronic Measurements; 13th TC21 Int. Workshop on ADC Modelling and Testing - Joint Session, Proc., 2008, Pp. 956-960 (indexată Scopus);

I10. Ursache, S., Branzila, M., Bratescu, C., Burlacu, R., *FDTD implementations for electromagnetic shields*, 16th IMEKO TC4 Int. Symp.: Exploring New Frontiers of Instrum. and Methods for Electrical and Electronic Measurements; 13th TC21 Int. Workshop on ADC Modelling and Testing - Joint Session, Proc., 2008, Pp. 605-609 (indexată Scopus);

I11. **R. Burlacu**, V.A. Neamtu, C. Bratescu, R.Ciobanu, *Dielectric Properties of Pan (polyacrylonitrile)/ Nmethyl Pyrrole Composite Polymer Thin Films*, Proceedings of the 8th International Conference on Electromechanical and Power Systems, SIELMEN 2011, Chisinau, Republic of Moldova, 13-15 octombrie 2011;

I12. V. A. Neamtu, C. Bratescu, **R. Burlacu**, *Modifications in the Composition of Structural Adhesives. Solidification Methods*, Proceedings of the 8th International Conference on Electromechanical and Power Systems, Sielmen 2011, Chisinau, Republic of Moldova, 13-15 octombrie 2011;

- I13. V.A. Neamtu, **R. Burlacu**, Bratescu C., *New Method for Curing Nanostructural Adhesives*, Proceedings of International Conference on Innovative Technologies IN-TECH 2011, pp. 408 – 409, ISBN 978-80-904502-6-4;
- I14. Pruteanu A., Bratescu C., **Burlacu R.**, Feraru A., *A comparation study between two important energy devices: supercapacitors and batteries*, Workshop Electrical properties and advances applications of nanostructured systems, EPE 2010, Iași, Romania, pp. 333-336;
- I15. Plopa, O., Cretu, M., **Burlacu, R.**, Costineanu, D., *A new approach of digital potentiometers: digital impedance measurements*, Proceedings of 17th Symposium IMEKO TC 4, Kosice, Slovakia, 8-10 september 2010, pp. 79;
- I16. Oana Neacșu, Liliana Bargan, **Ramona Burlacu**, Georgiana Viziteu, *Approach for measuring the electrostatic field associated with electrostatic discharge*, The 6th International Conference on Electrical and Power Engineering, EPE 2010, Vol I, pp. 295-299, ISBN 978-606-13-0077-8;
- I17. Trandabaț A., **Burlacu R.**, Bratescu C, Aradoaei M., *Internet Based Virtual Laboratory in Engineering Field*, 7TH International Conference on Electromechanical and Power Systems, SIELMEN 2009, vol I, 8-9 Octombrie 2009, Iași, Romania pp. 409-414, ISBN vol.I: 978-606-520-617-5;
- I18. Istvan, B., **Burlacu, R.**, *Unique analog equipment temperature measure*, Sielmen 2009, vol I, 8-9 Octombrie 2009, Iași, Romania, pp. 294, ISBN vol.I: 978-606-520-617-5.

J. Invenții

K. Contracte de cercetare

- K1. *Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetice într-un oraș durabil*, PN III ERA NET 83/2016 (membră în echipa de cercetare);
- K2. *Nanoterminal și arhitecturi inovatoare pentru aplicații integrate de captare a energiei piezoelectrice*, PN III ERA NET 50/2016 (membră în echipa de cercetare);
- K3. *Senzori integrați cu caracteristici microfluidice folosind tehnologia LTCC*, PN II ERA NET 9/2015 (membră în echipa de cercetare);
- K4. *Dezvoltarea de senzori integrați folosind tehnologia LTCC pentru aplicații în domenii ca: medicină, securitate și mediu*, PN II Capacitati (Cooperare Bilaterală România – Austria) 553/2012 (membră în echipa de cercetare);
- K5. *Materiale compozite inovative pentru ecranare electromagnetică, bazate pe pulberi nano-conductive obținute din reciclarea WEEE*, PN II Capacitati (Cooperare Bilaterală România – Slovacia) 655/2013 (membră în echipa de cercetare);
- K6. *Terapie hipertermo-chemoterapică combinată pentru controlul tumorilor hepatice bazată pe activarea cu microunde a unor nanostructuri funcționalizate imobilizate subendotelial*, PN II ERA NET 4-002/2012 (membră în echipa de cercetare);
- K7. *Dezvoltarea de bio-senzori implantabili dedicați evaluării neurotransmițătorilor, bazați pe depuneri de compozite polimerice conjugate pe structuri carbonice nano-poroase*, PN II Capacitati (Cooperare Bilaterală România-Grecia) 567/2012 (membră în echipa de cercetare);
- K8. *Compozite polimerice nano-active avansate cu metale rare și oxizi metalici, pentru aplicații în microelectronică în domeniul GHz*, PN II Capacitati (Cooperare Bilaterală România – Cipru) 436/2011 (membră în echipa de cercetare);
- K9. *Dezvoltarea de bio-senzori prin intermediul unei tehnologii inovative de electroacoperire a structurilor carbonice cu polimeri activi*, PN II ERA NET 7-038/2011 (membră în echipa de cercetare);
- K10. *Tehnologii inovative de asamblare-dezasamblare a componentelor nemetale industriale, bazate pe adezivi electro-activi nanostructurați*, ERA NET 7-042/2011 (membră în echipa de cercetare);
- K11. *Nanocompozite polimerice conductive cu structură predefinită și proprietăți dielectrice și EMC dedicate ecranării și realizării de panouri absorbante pentru clădiri speciale*, PN II ERA NET 7-014/2008 (membră în echipa de cercetare);

K12. *Ecrane si panouri absorbante pentru utilizari speciale bazate pe compozite nano- structurale cu arhitectura predefinita si proprietati dielectrice si electromagnetice personalizate*, PN II Capacitati (Cooperare Bilaterală Romania-Turcia) 63CB/2008 (membră în echipa de cercetare)

K13. *Filme ceramice subțiri nanoporoase din cristale zeolitice pe bază de siliciu pentru materiale cu constantă dielectrică redusă*, PN II Capacitati (Cooperare Bilaterală Romania-Coreea de Sud) 64CB/2008 (membră în echipa de cercetare);

K14. *Rețea wireless de senzori pasivi de hidrogen de tip flex-on-chip pe baza de olc-uri (onion-like carbon) manipulate cu ajutorul dielectroforezei*, PN II Parteneriat 43/2014 (membră în echipa de cercetare)

K15. *Metodologie dielectrică nedistructivă, neinvazivă, comparativă de detectare rapidă a ingredientilor cu potențial factor de risc pentru sănătate din produsele alimentare*, PN II Parteneriat 51-015/2007 (membră în echipa de cercetare)

K16. *Spectroscopia dielectrică de bandă largă ca metoda comparativă nedistructivă și neinvazivă de determinare a compusilor cu potențial de risc din produsele alimentare*, PNII IDEI,359/2007 (membră în echipa de cercetare 5%)

K17. *Biocompozite obținute prin reciclarea deșeurilor de PET și utilizarea de derivați ligno-celulozici*, CEEX M1, 79/2006 (membră în echipa de cercetare)

K18. *Materiale inteligente tip Chiral-Fagure pentru aplicații multisectoriale (și extinderea aplicațiilor propuse inițial pentru domeniul protecției la radiații electromagnetice - prin materiale și tehnologii avansate pentru construcții speciale*, CEEX-115/2006 (membră în echipa de cercetare)

K19. *Dezvoltarea capacității de integrare a României în cadrul programelor, platformelor și rețelelor europene în domeniul sistemelor virtuale și distribuite de design și management al cercetării*, CEEX M3 188/2006 (membră în echipa de cercetare)

K20. *Dezvoltarea parteneriatelor C/D prin includerea excelenței Românești, în vederea promovării de proiecte comune în domeniul materialelor avansate nanostructurate destinate ecranelor de protecție la radiații electromagnetice în domeniul GHz*, CEEX M3 202/2006 (membră în echipa de cercetare)

K21. *Dezvoltarea capacității de integrare a României în cadrul programelor, platformelor și rețelelor europene în domeniul metodelor comparative neinvazive și nedistructive de analiză a calității și siguranței alimentelor*, CEEX M3 173/2006 (membră în echipa de cercetare)

K22. *Dezvoltarea capacității de integrare a României în cadrul programelor, platformelor și rețelelor europene în domeniul obținerii de biocompozite cu aplicații multisectoriale*, CEEX M3 179/2006 (membră în echipa de cercetare)

L. Premii, distincții

M. Alte realizări semnificative

Data: 25.02.2026

Șef lucr. dr. ing. Simionescu Ramona

Lista de lucrări în domeniul de studii universitare de licență "Inginerie electrică"

Numele și prenumele: Corneliu Eugen Șfartz

A. Teza de doctorat.

„Studiul unor fenomene de vibrații cu aplicații la sistemele ingineresti“, Univ. Tehnică “Gh. Asachi” Iași, 1999.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

E. Șfartz - „Funcțiile - wavelet în identificarea sistemelor – aplicații la sisteme mecanice, Editura “Gh. Asachi”, Iași, 2000.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

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M. Alte realizări semnificative.

Nume, semnătura

Șef de lucrări dr. ing. mat. Corneliu Eugen Șfartz

Semnătura:

LISTA DE LUCRĂRI ÎN DOMENIUL DE STUDII DE LICENȚĂ INGINERIE ELECTRICĂ

Numele și prenumele: STAMATE Vasile Ciprian

A. Teza de doctorat.

1. **„CONTRIBUȚII LA STUDIUL TEORETIC ȘI EXPERIMENTAL AL FORȚELOR ÎN MICROSISTEME BIOLOGICE ȘI MECATRONICE”** – Coordonator științific: prof. univ. dr. ing. Dumitru OLARU, aprilie 2012.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

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7. Burlacu A., Irimia D., Stamate C. and Doroftei I., Semi-Automated Procedure for Waste Printed Circuits Boards Semi-Automated Procedure Reduction, Smart Applications & Technologies for Electronic Engineering, SATEE 2018, Alba-Iulia, June, 21-23, Romania.
8. Stamate C., Burlacu A., Irimia D. and Doroftei I., Size Classification of Atx Base PC Boards for Mounting Brackets, The XXII-nd International Scientific Conference INVENTICA, Iasi, June, 28-29, 2018.
9. International Conference on Aerospace, Robotics, Biomechanics, Neurorehabilitation, Mechanical Engineering and Manufacturing Systems (ICMERA 2016), Bucharest, 4-6 November 2016, cu lucrarea: „*IMAQ Vision Builder Applications in SEM Image Processing of Pharmaceutical Powders*” in Session .Mechanical Engineering.
10. OPTIROB 2015 (International Conference on Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, Biomechanics, Neurorehabilitation, Human motricities), 27-30 June 2015, Constanța, Romania, cu lucrarea: „*Friction Analysis between Uhmwpe, Alumina-Magnesia Ceramic and Pva Hydrogel, Biomaterials for Prosthetic Devices*”.
11. OPTIROB 2014 (International Conference on Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, Biomechanics, Neurorehabilitation, Human motricities), 26-30 June 2014, Mangalia, Romania, cu lucrarea: „*Three Dimensional Simulations in Real Time for Personalized Drug Release Prosthesis used in Lumbosacral Rehabilitation*”.
12. OPTIROB 2013 (International Conference on Aerospace, Robotics, Manufacturing Systems, Mechanical Engineering, Biomechanics, Neurorehabilitation, Human motricities), 20-23 June 201, Constanța, Romania, cu lucrările: „*Tribological Analysis and Optimization of Polymer Prosthetic Components as Drug Delivery Systems*” și „*Evaluation of Surface Roughness Variation of Solid Dosage Forms in Simulated Physiological Conditions*”.
13. AMS'13 (Advanced Materials and Structures), 24-25 October 2013, Timișoara, Romania, cu lucrarea: „*Synthesis and SEM Analysis of Ketoprofen-Hidroxiopropil-β-Cyclodextrin Microparticles for Medical Applications as Drug-Release System with a High Bioavailability*”.
14. Proceedings of the 5th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2012, Iași, 14 -15 June 2012, cu lucrarea: „*Comparative research on the structural modifications of Al₂O₃-TiO₂ layers obtained by plasma spray deposition method used in the internal combustion engine in different character of service*”, in Section 1: ACME 1-37.
15. Fourth International Conference Advanced Materials and Structures - AMS '11 – organizată de Universitatea “Politehnica” din Timișoara, 27 October 2011, cu lucrarea “*The Characterization of Ketoprofen- Hydroxypropyl-B-Cyclodextrin Complex Like Biomaterial with Modified Drugs Release Properties*” in Session 1 - Advanced Materials (Amorphous alloys, Composites, Biomaterials, Particulate materials).
16. International Conference on Mechanical Engineering, Robotics and Aerospace (ICMERA 2011) under the tutelage of the Romanian Academy of Technical Sciences and International Association of Computer Sciences and Information Technology- IACSIT Singapore, Bucharest, 20-22 October 2011, cu lucrarea: “*Synthesis and SEM Analysis of Ketoprofen-Hidroxiopropil-β-Cyclodextrin Microparticles for Medical Applications as*

Drug-Release System with a High Bioavailability” in Session 9.

17. ModTech International Conference - New face of TMCR. Modern Technologies, Quality and Innovation - New face of TMCR din Chişinău, Republic of Moldova, 25-27 May 2011, cu lucrarea: *“Rolling friction torque in microsystems for dry and lubricated conditions”* in Section 3 - Manufacturing & Automation and Flexible Technologies.
18. Proceedings of ROTRIB’10 – organizată de Universitatea Tehnică “Gheorghe Asachi” din Iaşi, Facultatea de Mecanică, 4-6 noiembrie 2010, cu lucrările: *„Adhesive forces in the microball-liquid (water and oil) contacts”*; *„Dynamic model to determine the rolling friction torques in Microsystems for dry and lubricated conditions”*; *„Geometrical effects on rolling friction in Microsystems”*.
19. Proceedings of 4th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2010 – organizată de Universitatea Tehnică “Gheorghe Asachi” din Iaşi, Facultatea de Mecanică, 17-18 iunie 2010, cu lucrarea: *„Experimental Study of Friction in Dry Micro Rough Contacts”*.
20. Proceedings of 15th International Conference on EHD Lubrication and Traction, VAREHD’15 – organizată de Universitatea “Ştefan cel Mare” din Suceava, 6-8 mai 2010, cu lucrarea: *„Rolling friction torque in microsystems”*.
21. International Conference Diagnosis and Prediction in Mechanical Systems Engineering, DIPRE’09 – organizată de Universitatea “Dunărea de Jos” din Galaţi, 22-23 octombrie 2009, cu lucrarea: *„Friction in the microtribosystems. influence of the condensed water”*.
22. Proceedings of 13th International Conference “Modern Technologies, Quality and Innovation-ModTech 2009”-New face of TMCR – organizată de Universitatea Tehnică “Gheorghe Asachi” din Iaşi, 21-23 mai 2009, cu lucrarea: *„Specific aspects on yarn tensions produced during the ring spinning frames operating”*.
23. Proceedings of 14th International Conference on EHD Lubrication and Traction, VAREHD’14 – organizată de Universitatea “Ştefan cel Mare” din Suceava, 9-11 octombrie 2008, cu lucrările: *„Rolling friction in the mechatronic microsystems”*; *„A new pin disc microtribometre”*.
24. International Conference 6th Workshop on European Scientific and Industrial Collaboration on Promoting Advanced Technologies in Manufacturing, WESIC’08 – organizată de Institutul Naţional de Cercetare - Dezvoltare pentru Mecatronică şi Tehnica Masurării (INCDMTM) din Bucureşti, 25-26 septembrie 2008, cu lucrările: *“Rolling Friction in the Mechatronic Microsystems”*; *“The SEM Surface Characterization Of Wear Particles A Result Of Intervertebral Disc Prosthesis Fretting”*.
25. 53th International Colloquium IWK, TU Ilmenau, 8-12 September, 2008, cu lucrarea: *“The Influence of the Atmospheric Condensed Water on Friction in Micro Systems”*.
26. Proceedings of 9th International Conference on Mechatronics and Precision Engineering, COMEFIM’9, – organizată de Universitatea Tehnică “Gheorghe Asachi” din Iaşi, Facultatea de Mecanică, 12-14 June 2008, cu lucrările: *“New Microtribometers for Sliding and Rolling Friction. Experimental Investigations”* in Room: CAD laboratory, Session: MEMS. Micro and Nanotechnology. Tribology of micro Contacts;; *“Electrostrictive properties of LiClO₄/Ethylene Carbonate/Poly(Acrylonitrile) gels”* in Room: Amphitheatre M1, Session: Mechanical Structures and Elements for Precision Engineering, Bioengineering and Mechatronics; *“Electroresponsive polymeric gels based on Poly(Acrylonitrile) and Poly(Vinyl Alcohol)”* in Room: Central hall, Session: POSTERS; *“Micro-structural evolution of UHMWPE biomaterial for medical application”* in Room: Central hall, Session: POSTERS.
27. The International Conference of the Carpathian Euro-Region Specialists in Industrial

Systems, – organizată de Universitatea de Nord din Baia Mare, 21-23 may 2008, cu lucrarea: *“Optimisation of human intervertebral disc prosthesis a new mechanical support and drug release system”*.

28. Proceedings of 16th International Colloquium Tribology, T.A.Esslingen, Germany, 15-17 January 2008, cu lucrarea: *“The Influence of the Atmospheric Condensed Water on Friction in a Micro Rolling Systems”*.
29. Proceedings of 10th International Conference on Tribology, ROTRIB’07, organizată de Universitatea POLITEHNICA din București, 8-10 noiembrie 2007, cu lucrările: „*Experimental determinations of a water meniscus between a steel ball and a glaze surface*” in Session: 4.1 - Fundamentals of Lubrication - II; „*Characterizing the wear particles of intervertebral disc prosthesis and their biological response*” in Session: 6.2 - Biotribology.
30. International Scientific Conference “Modern Technologies, Quality, Restructuring” T.M.C.R.-2007, Ediția a XI-a, organizată de Universitatea Tehnică a Moldovei din Chișinău, 31 mai – 03 iunie 2007, cu lucrările: *“The influence of the atmospheric condensed water of friction in a micro rolling systems”*; *“The reconstruction of the intervertebral disc using CT of lumbar spine and AutoCAD”*.

J. Invenții

1. Brevet de invenție nr. 127562 A2 - RO-BOPI 6/2012, din 29.06.2012

Titlul brevetului: Procedeu și microtribometru inerțial pentru studiul fenomenului de frecare de rostogolire. Autori brevet : Dumitru OLARU, Ciprian STAMATE, Gheorghe PRISĂCARU, Gelu IANUȘ.

2. Brevet de invenție nr. 127849 A2,- RO-BOPI 9/2012, din 28.09.2012

Titlul brevetului: Microtribometru gravitațional pin-disc pentru studiul fenomenului de frecare de alunecare. Autori brevet : Dumitru OLARU, Ciprian STAMATE, Gheorghe PRISĂCARU, Gelu IANUȘ, Alina Corina DUMITRAȘCU.

K. Contracte de cercetare/granturi.

<i>Perioada</i>	<i>Programul / Proiectul</i>	<i>Funcția</i>
mar. 2021 - iul. 2023	Contract Principal: ROSE AG329/SGU/PV/III/2020 Titlul proiectului: Școala de vară pentru elevi „Vreau să fiu student” – MECSTUD Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: conf.univ.dr.ing. Gelu IANUȘ Durata proiectului: 28 luni. Atelier de lucru - ”Mașina inteligentă”	Formator (FR)
dec. 2020 – dec.2022	Proiect internațional nr. 2SOFT/1.1/64/2020, din cadrul programului „Joint Operational Programe Romania - Republic of Moldova 2014 - 2020”, finanțat prin ENI CBC, Titlul proiectului: „Cross border cooperation in mechatronics engineering education” - (CBCinMEE). Contractor: Universitatea Tehnică „Gheorghe Asachi” din Iași Manager de proiect: conf.dr.ing. Gelu IANUȘ Durata proiectului: 36 luni.	Curricular Specialist 2 (Specialists)
3 – 6 august 2020	Cod Contract: CNFIS-FDI-2020-0157 Titlul proiectului: ”Internaționalizare Creativă la TUIASI – INTER-BUZZ în domeniul internaționalizării învățământului superior. „Empower Your Online Public Speaking Competences” – training de comunicare digitală pentru cursuri online, dedicat profesorilor TUIASI	Cursant

oct. 2017 – dec. 2020	Cod Contract: PN-III-P1-1.2-PCCDI-2017-0652. Contract nr. 84PCCDI/2018 Titlul proiectului: Tehnologii inovative pentru recuperarea avansată a materialelor din deșeuri de echipamente informatice și de telecomunicații (TRADE-IT) Director proiect complex (DPC): conf.univ.dr.ing. Ioan Marius PURCAR Coordonator: Universitatea Babeș Bolyai din Cluj - Napoca. Partener 4 proiect complex (P4) - Universitatea Tehnică "Gheorghe Asachi" Iași; Responsabil partener 4 (RP4): prof.univ.dr.ing. Ioan DOROFTEI PROIECT 1 "Tehnologii optimizate cu impact redus asupra mediului pentru recuperarea avansată a materialelor din deșeuri de echipamente informatice și de telecomunicații" – TORA	Membru cercetare științifică
1 – 30 noiembrie 2011	Cod Contract: POSDRU/56/1.2/S/32768. Titlul proiectului: Formarea cadrelor didactice universitare și a studenților în domeniul utilizării unor instrumente moderne de predare-învățare - evaluare pentru disciplinele matematice, în vederea creării de competențe performante și practice pentru piața muncii. Beneficiar: Ministerul Educației, Cercetării, Tineretului și Sportului.	Cursant
dec. 2008 – dec. 2011	Proiect PNII – Parteneriate, contract nr. 72178/2008 Titlul proiectului: Sisteme mecatronice inteligente pentru echipamente textile. Autoritatea Contractantă: Unitatea Executivă pentru Finanțarea Învățământului Superior și a Cercetării Științifice Universitare (UEFISCSU) Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: conf.univ.dr.ing. Carmen LOGHIN Durata proiectului: 36 luni.	Membru colectiv cercetare Doctorand
oct. 2007 – oct. 2010	Proiect PN II – IDEI cod ID 607, contract nr. 381/2007 Titlul proiectului: Cercetări privind reducerea frecării în microsisteme mecatronice. Autoritatea Contractantă: Unitatea Executivă pentru Finanțarea Învățământului Superior și a Cercetării Științifice Universitare (UEFISCSU) Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director proiect: prof.dr.ing. Dumitru OLARU Durata proiectului: 36 luni.	Membru colectiv cercetare Doctorand
oct. 2007 – oct. 2008	Grant TD-208, Nr. 277/01.10.2007, PN II R.U. – Autoritatea Contractantă: Unitatea Executivă pentru Finanțarea Învățământului Superior și a Cercetării Științifice Universitare (UEFISCSU). Titlul proiectului: CONTRIBUȚII LA STUDIUL TEORETIC ȘI EXPERIMENTAL AL FORȚELOR ÎN MICROSISTEME BIOLOGICE ȘI MECATRONICE. Durata proiectului: 12 luni. Director de proiect: Drd. ing. Ciprian STAMATE, Universitatea Tehnică “Gheorghe Asachi” Iași	Director de proiect Doctorand
sept. 2007 – sept. 2009	Proiect CNCSIS cod contract nr. 33/2007, tema 22. Proiect CNCSIS cod contract nr. 77/2008, tema 33. Titlul proiectului: Polimeri Electroactivi (PEA) - O nouă clasă de actuatori neconvenționali. Autoritatea Contractantă: Consiliul National al Cercetării Științifice	Membru colectiv cercetare. Doctorand

	din Învățământul Superior (CNCSIS). Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director proiect: conf.dr.ing. Gheorghe PRISĂCARU Durata proiectului: 24 luni,	
sept. 2006 – sept. 2008	Proiect P-CD modul I/2006, CEEEX, contract nr. 205/20.07.2006, Titlul proiectului: Sisteme mecatronice mobile inteligente cu impact ecologic pentru echipamente textile. SYMTEX. Director de proiect: Conf. dr. ing. Lucian C. HANGANU, Autoritatea contractantă: Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic – POLITEHNICA București, Contractor: Universitatea Tehnică “Gheorghe Asachi” din Iași	Doctorand
feb. 2003 – mai 2003	Bursă SOCRATES-ERASMUS: Université Libre de Bruxelles, Faculté des Sciences Appliquées, Responsabili de proiect: România – Prof.univ.dr.ing. Dumitru OLARU Prof.univ.dr.ing. Ioan DOROFTEI Belgia – Prof. André PREUMONT	Masterand stagiar

L. Premii, distincții.

1. PN-II-RU-PRECISI-2014-8-6047, lucrare premiată de UEFISCDI, pentru articolul: „The influence of the lubricant viscosity on the rolling friction torque”, Bălan M.R.D., Stamate V.C., Houpert L., Olaru D.N., Tribology International, Vol.72, pp1-12, DOI:10.1016/j.triboint.2013.11.017, ISSN: 0301-679X, IF:2,124/2013.

2. Premiu UEFISCDI - Subprogram 1.1 - Resurse Umane - Premiarea rezultatelor cercetării - Articole, Competiția 2009. Articole publicate în anul 2009, acordat pentru articolul HEMA Based co-Polimer as a Future Material in Intervertebral Disc Replacements, autori: Stamate Crețan M, Grigoraș Șt, Hanganu LC, Stamate C, Hanganu C, Munteanu FI.

M. Alte realizări semnificative.

Semnătura:
Conf.dr.ing. Ciprian STAMATE

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

șef lucr. dr. ing. Sticea Daniel

A. Teza de doctorat.

- A. *"Sisteme de control distribuit de pe vehicule electrice."*, domeniul Inginerie Electrică, conducător prof. Dr. Ing. Gheorghe Livinț, Universitatea Tehnica "Gheorghe Asachi" din Iasi, 2011

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

- 1.
- 2.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

1. **D. Sticea**, Sisteme de control distribuit de pe vehicule electrice hibride, Editura Politehniun (cod CNCSIS 211), Iași, 194 pag. (38 rânduri/pagină) 2011, ISBN 978-973-621-355-7, 2011.
- 2.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

- 1.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. Gh. Livint, V. Horga, **D. Sticea**, M. Ratoi, M. Albu, Hybrid Electric Vehicle Experimental Model with CAN Network Real Time Control, Advances in Electrical and Computer Engineering, Volum 10, Nr2, 2010
2. Gh. Livint, V. Horga, **D. Sticea**, M. Rățoi, M. Albu, Electrical drive systems control on a hybrid vehicle model, Bul. Inst. Polit. Iași, LVI(LX), s. Electrot., Energ., Electron., pp. 103 – 115, (2010) (Index Copernicus)
3. **D. Sticea**, C. Dumea, Gh. Livint, Batteries management systems for an hybrid electric vehicle test bench, Bul. Inst. Polit. Iași, LVII(LXI), s. Electrot., Energ., Electron., pp. 69-77, (2011) (Index Copernicus, getCITED)
4. **D. Sticea**, Gh. Livint, M. Albu, Design and implementation of controller area network on hybrid electric vehicle experimental model, Bul. Inst. Polit. Iasi, LVII(LXI), s. Electrot., Energ., Electron., pp. 87-93, (2011) (Index Copernicus, getCITED)
5. **D. Sticea**, GH. Livint, M. Albu, DC-DC convertor structure for energy management on (hybrid) electric vehicle, Conferința Nationala a Actionarilor Electrice, pp. 108 – 112, (2012), Buletinul AGIR nr.4/2012 octombrie-decembrie, (Index Copernicus).

G. Lucrări științifice publicate în reviste din străinătate.

1. **D. Sticea**, *Bidirectional DC-DC converter for energy source interface on hybrid electric vehicle*, Fórum Manažéra, Volume 2, pp.10 – 12, (2011)

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

1.

I. Lucrări științifice publicate în volumele conferințelor.

1. **D. Sticea**, Gh. Livint, M. Albu, G. Chiriac, *Experimental stand for the dynamical cycle study of the batteries used on hybrid electrical vehicle*, Sielmen, Volume 2, pp. 172 – 175, (2009)
2. Gh. Livint, V. Horga, **D. Sticea**, M. Rățoi, M. Albu, *Electrical drives control of a hybrid electric vehicle experimental model*, Sielmen, Volume 2, pp. 21 – 27, (2009).
3. G. Chiriac, **D. Sticea**, Gh. Livint, D. Lucache, E. Dănilă, *Tendencies in electric and hybrid electric vehicles batteries*, Sielmen, Volume 2, pp. 181 – 186, (2009)
4. E. Dănilă, G. Chiriac and **D. Sticea**, *Supercapacitors to future storage devices*, Sielmen, Volume 2, pp. 380 – 383, (2009).
5. **D. Sticea**, M. Albu, *Laboratory test bench for control algorithms study of the DC motor drive*, Sielmen, Volume 1, pp. 405 – 408, (2009).
6. **D. Sticea**, M. Albu, Gh. Livint, V. Horga, M. Ratoi, *An automated manual transmission solution for a hybrid electrical vehicle model*, 6TH International Conference on Electrical and Power Engineering, Volume 1, (2010).

7. Danut Constantin Irimia, Alina Georgiana Baciuc, **Daniel Adrian Sticea**, Marian Silviu Poboroniuc, *New Fes-robotic glove hybrid system for hand motor functions rehabilitation*, A XIX Conferință Națională a Acțiunilor Electrice, (2018)
8. Elena Dănilă, **Daniel Sticea**, Gheorghe Livinț, Dorin Dumitru Lucache, "Hybrid backup power source behaviour in a microgrid", Proceedings of International Conference and Exposition on Electrical and Power Engineering 2014, ISSN 978-1-4799-5848-1, pp. 637 – 641, index IEEE Xplore, DOI 10.1109/ICEPE.2014.6969987
9. **Daniel Sticea**, Mihai Albu and Gheorghe Livinț, "The Bidirectional Power Exchange Using a DC/DC Converter with Coupled Inductances" Proceedings of International Conference and Exposition on Electrical and Power Engineering 2014, ISSN 978-1-4799-5848-1, pp. 933-940, index IEEE Xplore, DOI: 10.1109/ICEPE.2014.6970048
10. Mihai Albu, **Daniel Sticea**, Cristian Foscalau and Gabriel Chiriac, "Low-Cost Low-Power Microgrid with Photovoltaic Panels", Proceedings of International Conference and Exposition on Electrical and Power Engineering 2014, ISSN 978-1-4799-5848-1, pp. 941-944, index IEEE Xplore, DOI: 10.1109/ICEPE.2014.6970049
11. Danut C. Irimia; Marian S. Poboroniuc; Sergiu Hartopanu; **Daniel Sticea**; Georgel Paicu; Bogdan E. Ignat, "Post-stroke hand rehabilitation using a hybrid FES-robotic glove", Proceedings of International Conference and Exposition on Electrical and Power Engineering 2016, pp. 356 – 359, index IEEE Xplore, DOI 10.1109/ICEPE.2016.7781362
12. Dumitru Cuciureanu; Costica Nituca; Gabriel Chiriac; **Daniel Sticea**, "Analysis of the photovoltaic panels currently in use in different locations", Proceedings of International Conference and Exposition on Electrical and Power Engineering 2016, pp. 888 - 893, DOI: 10.1109/ICEPE.2016.778146
13. **Daniel Sticea**, Mihai Albu, Gabriel Chiriac, "Laboratory board for studying the half-bridge power electronic converters", 2017 International Conference on Electromechanical and Power Systems (SIELMEN), pp. 506-511, DOI: 10.1109/SIELMEN.2017.8123380
14. Gabriel Chiriac; Costica Nituca; **Daniel Sticea**, "Electric Locomotive Laboratory Test Bench for Research and Educational Purposes", 8th International Conference on Modern Power Systems (MPS), 21-23 May 2019, DOI: 10.1109/MPS.2019.8759652
15. Andrei-Iulian Roman; Marian-Silviu Poboroniuc; **Daniel Sticea**; Danut-Constantin Irimia "Improved Software and Hardware of a Device Aiming to Assess Hand Movements During Rehabilitation in Hemiparetic People", 2020 International Conference on e-Health and Bioengineering (EHB), 29-30 Oct. 2020, DOI:10.1109/EHB50910.2020.9279875
16. Andrei-Iulian Roman; Marian-Silviu Poboroniuc; **Daniel Sticea**; Danut-Constantin Irimia "A Novel Hardware and Software Interface for a Grip Force Tracking System", 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), 22-23 Oct. 2020, DOI: 10.1109/EPE50722.2020.9305590

17. Cătălin-Marian Samson; Elena Lercă; **Daniel Sticea**, "System for Study Stepper Motor Control and Clock Application", 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), 22-23 Oct. 2020, DOI: 10.1109/EPE50722.2020.9305535
18. **Daniel-Adrian Sticea**; Georgel Gabor; Gabriel Chiriac; Mihai Albu; Anamaria Brnzei," DC Motor Closed Loop Speed Control Using Rapid Control Prototyping", 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), 16-18 October 2025, DOI: 10.1109/SIELMEN67352.2025.11260740

J. Invenții.

K. Contracte de cercetare/granturi.

1. Membru in: PCCA 2012-2016 PNII project, No. 150/2012, IHRG -AN INTELLIGENT HAPTIC ROBOT GLOVE for the PATIENTS SUFFERING A CEREBROVASCULAR ACCIDENT, Coordinator: University of Bucharest; Project responsible TUIASI: Marian Poboroniuc.
2. Membru in: Contract nr. 16052P/07.09.2017, *Cercetari privind dezvoltarea unui sistem pentru monitorizarea si optimizarea indicatorilor de autoconsum din surse distribuite*, Proiect tip PN-III-P2-2.1-CI-2017-0823 nr. 145 CI / 10.10.2017-11.04.2018. Valoare 44990 ron. Director proiect: Ciprian Nemeș, Beneficiar: SC DAS SRL Iasi.
3. Proiect TE 114 din 09/09/2020 (PN-III-P1-1.1-TE-2019-1753), *SISTEM HIBRID BCI-EXOSCHELET PENTRU RECUPERAREA MEMBRELOR SUPERIOARE*, Danut Constantin Irimia – Director, Membri : Marian S. Poboroniuc, Alina G. Baciuc, Daniel A. Sticea, Andrei I. Roman, Piseru Andrei

L. Premii, distincții.

1. Marian-Silviu Poboroniuc, Danut Irimia, Daniel Sticea, Georgel Paicu, Antonela Curteza, Laura Macovei, Virica Cretu, Maria Buzdugan, Tania Cernea, CYBER-ARM: Sisteme mecatronice hibride exoschelet&FES pentru recuperarea pacientilor cu handicap neuromotor, 7th International Fair of Inventions and Practical Ideas, INVEST-INVENT 2016, 15-17.09.2016, Iasi, RO, poster. Premiul: "Intelligent Systems Award " si Medalia de aur.

M. Alte realizări semnificative.

Data,
27.10.2025

șef lucr. dr. ing. Daniel Sticea

Lector dr. ȘTIRBU Ioan

A. Teza de doctorat.

1. Cercetări privind biofuncționalizarea suprafeței unor aliaje pe baza de titan destinate aplicațiilor medicale, Universitatea Tehnică

„Gh. Asachi” din Iași, 2016.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

1. Ioan Stirbu, Anatolie A. Budevici, *Educație fizică în pregătirea profesională a viitoarei generații*. Editura Tehnica-Info, Chisinau, 2000, IS BN 9975-63-012-X.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. Huțanu, G., Andrușcă, L., Popa, M., Paraschiv, P., Manole, V., Știrbu, I., & Cimpoeșu, N. (2024). ANALYSIS OF FRACTURE THROUGH TENSION AND TORSION OF 316L STAINLESS STEEL. *International Journal of Modern Manufacturing Technologies (IJMMT)*, 16(2).

2. MISTREANU, S., TUDOSE-SANDU-VILLE, F., MUNTEANU, C., CIMPOESU, R., LUTCANU, M., ȘTIRBU, I., ... & CIMPOEȘU, N. (2024). *INFLUENCE OF CORROSION ON THERMO-MECHANICAL CONTACT FATIGUE IN ROLLING CONDITIONS WITH LOW AMPLITUDE SLIDING*. *Archives of Metallurgy & Materials*, 69(2).

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4. LUȚCANU, Marian et al. *ANALYSIS OF ELECTRICAL DISCHARGE MACHINING (EDM) CUT OF CERAMIC LAYERS OBTAINED THROUGH ATMOSPHERIC PLASMA SPRAYING (APS) ON STEEL SUBSTRATE*. *ACTA TECHNICA NAPOCENSIS - Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING*, [S.l.], v. 65, n. 4S, mar. 2023. ISSN 2393-2988. Available at: <<https://atna-mam.utcluj.ro/index.php/Acta/article/view/2049>>. Roman, A. M., Chelariu, R., Cimpoesu, R., Stirbu, I., Ionita, I., Cazacu, M. M., ... & Sodor, A. (2022). *Analysis of the Corrosion Rate of FeMn-Si Biodegradable Material*. *Archives of Metallurgy and Materials*, 67(4), 1243-1250.

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6. Lutcanu, M., Istrate, B., Coteata, M., Chicet, D. L., Ionita, I., Paraschiv, C., ... & Cimpoesu, N. (2021, February). *Structural aspects and chemical analyses on cutting process of metal/ceramic materials*. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1037, No. 1, p. 012033). IOP Publishing.

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10. Știrbu, I., Vizureanu, P., Cimpoeșu, R., Lungu, M., Bernevig, M., Popa, R.F., *Chemical procedures for Ti-alloy based metal/ic surface modification*, Optoelectronics and Advanced Materials, Rapid Communications , 2014, 8 (3-4), pp. 242-246.
11. Gradinaru, I., Știrbu, I., Gheorghe, C. A., Cimpoesu, N., Agop, M., Cimpoesu, R., Popa, C., *Chemical properties of hydroxyapatite deposited through electrophoretic process on different sandblasted samples*, Materials Science - Poland, Voi. 32, 4, 2014, 578-582, DOI: 10.2478/sl3536-014-0241-x.
12. Știrbu, I., Vizureanu, P., Cimpoesu, N., *Analysis of Dental Alloys Characteristics (Microstructure and Corrosion Resistance) for Different Obtaining Methods*, The Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science, 2013, no. 4, 78-84, B+.
13. Știrbu, I., Vizureanu, P., Cimpoesu, R., *Titanium Based Alloys Chemical Surface Functionalization*, The annals of "Dunarea de Jos" University of Galati, Fascicle IX. Metallurgy and Materials Science, 2013, ISSN 1453 - 083X, pg. 49-54, B+.

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

1. I. Lucrări științifice publicate în volumele conferințelor. Todirică, F., Chicet, D. L., Achiței, D., Manole, V., Bernevig, M., Știrbu, I. & Cimpoeșu, N. (2025). Using energy dispersive spectroscopy (EDS) for a stainless steel-brass welding interface characterisation [Paper]. Proceedings - 56th International October Conference on Mining and Metallurgy, Bor Lake. <https://doi.org/10.5937/IOC25382S>.
2. I. Știrbu, P. Vizureanu, R. Cimpoesu, C. Munteanu, B. Istrate, M. Benchea, N. Cimpoeșu, *Preliminary results on Ti-based alloy surface sandblast in order to improve the HA deposition process*, ModTech2014 International Conference , Iasi.
3. Congresul Internațional de Educație Fizică și Sport și Kinetoterapie 2014, Ediția a IV, 11-13 iunie, București. Prezentare orală
Implant material for sportive injuries.
4. Știrbu I., Vizureanu, P., Rătoi, M., Cimpoesu, N., *Electrochemical deposition of hydroxyapatite (HA) on titanium alloys for the implant surface bio-functionalization*, IEEE Ehealth and Bioengineering Conference (EHB), 2013, DOI: 10.1109/EHB.2013.6707411.
5. Știrbu, I., Vizureanu, P., Rătoi, M., Cimpoesu, R., *Obtaining hydroxyapatite (HA) by sol-gel method on Ti6Al4V alloys aiming the implant's surface bio-functionalization*, Ehealth and Bioengineering Conference, EHB 2013, 6707412.
6. *New trends in environmental and materials engineering*, 2nd Edition of the international conference of young researchers, TEMA, Octombrie 28- 30, 2013, Galați, România , prezentare orală, **P65 Ti - Alloys chemical surface functionalization.**

J. Invenții. Contracte de cercetare/granturi.

K. Premii, distincții.

L. Alte realizări semnificative.

Data: 1.10.2025

Lector dr. Știrbu Ioan

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Numele și prenumele: Tărniceriu Carmen-Oana

A. Teza de doctorat.

Controlul dinamicii populației/ Control of population dynamics, susținută public la data de 03.08.2008 la Universitatea Alexandru Ioan Cuza din Iași, în domeniul Matematică, sub îndrumarea științifică a prof. univ.dr. Sebastian Anița

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

C.O. Tărniceriu, *Algebră Liniară și Geometrie Analitică și Diferențială*, Editura Performantica, ISBN 978-606-685-753-6, Iași, 2020

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Matematici Speciale, îndrumar disponibil pe Web la adresa

<http://math.etti.tuiasi.ro:81/otarniceriu/seminarii.html>

2. Analiză numerică asistată de calculator, îndrumar disponibil pe Web la adresa

<http://math.etc.tuiasi.ro/otarniceriu/laboratoare.html>

3. *Algebră Liniară și Geometrie Analitică și Diferențială*, îndrumar disponibil pe Web:

<http://math.etc.tuiasi.ro/otarniceriu/cursuri.html>

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. G.Dumont, **C.O. Tărniceriu**, *Pattern formation in a spiking neural-field of renewal neurons*, SIAM Journal on Applied Dynamical Systems, 23(4), 2670-2694, 2024.

2. G.Dumont, J.Henry, **C.O. Tărniceriu**, *Oscillations in a fully-connected network of leaky integrate-and-fire neurons with a Poisson spiking mechanism*, Journal of Nonlinear Science, 34(1), 2024.

3. G.Dumont, J.Henry, **C.O. Tărniceriu**, *A theoretical connection between the Noisy Leaky Integrate-and-Fire and the Escape Rate models: The non-autonomous case*, Mathematical Modelling of Natural Phenomena, DOI: 10.1051/mmnp/2020017, 2020

4. G. Dumont, J. Henry, **C.O. Tărniceriu**, *Noisy threshold in neuronal dynamics: Connections with leaky integrate-and-fire model*, Journal of Mathematical Biology, 2016, vol. 73, issue 6-7, pp 1413 -1436, DOI: 10.1007/s00285-016-1002-8.

5. G. Dumont, J. Henry, **C.O. Tărniceriu**, *Theoretical connections between mathematical neuronal models corresponding to different expressions of noise*, Journal of Theoretical Biology, 2016, vol. 406, pp. 31-41, DOI: 10.1016/j.jtbi.2016.06.022.

6. G.Dumont, J. Henry, **C.O. Tarniceriu**, *A Density Model for A Population of Theta-Neurons*, Journal of Mathematical Neuroscience, 4(1):2, 2014
7. **C.O. Tarniceriu**, *Age structure in neuronal models*, (review paper), Special Issue of the Journal „Annals of the Alexandru Ioan Cuza University of Iași” (new series), Mathematics, „Surveys în Mathematical Biology and Medicine. Modeling, simulations and control.”, 66(2), 2020.
8. A. Garenne, J. Henry, **C.O. Tarniceriu**, *Analysis of Synchronization in a Neural Population by a Population Density Approach*, Math. Model. Nat. Phenom. Vol. 5, No. 2, pp. 5-25, 2010
9. **C.O. Tarniceriu**, *Optimal Strategy for a Harvesting Problem of Population Dynamics with Logistic Term*, „Analele Științifice ale Universității Al. I. Cuza Iași”, 56 (fasc I), 2010, 25-38.
10. **C.O. Tarniceriu**, *Asymptotic behavior for a nonlinear age-structured population model with diffusion*, Analele Științifice ale Universității Al. I. Cuza Iași, fasc. 2 (Tomul LIV), 2008
11. S. Anita, **C.O. Tarniceriu**, *Stabilization for a periodic predator-prey system* Abstract and Applied Analysis, volume 2007, doi:10.1155/2007/86183

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

I. Lucrări științifice publicate în volumele conferințelor.

1. **C.O. Tarniceriu**, V.M.Veliov, *Optimal Control for a Class of Size-Structured Systems*, Lecture Notes in Computer Science (ISI Conference Proceedings), volume 4818, Springer Verlag, 456-462, 2008

J. Invenții.

K. Contracte de cercetare.

Membră în contractele de cercetare:

1. Grant CNCSIS 1416/2005 încheiat de Univ. Al. I Cuza, cu titlul *Controlul și stabilizarea sistemelor de tip reacție-difuzie. Optimizarea poziției și a formei suportului controlului*, director de grant prof. dr. S. Anița, 2005-2007.
2. Proiectul de cercetare exploratorie IDEI ID_381 încheiat de Univ. Al. I Cuza în 2007, cu titlul *Controlul optimal și stabilizarea modelelor continue ale dinamicii populației*, director de proiect prof. dr. S. Anița, 2007-2010.
3. Bilateral Project “Brâncuși”, *Reaction-Diffusion Systems in Population Dynamics*, director de proiect Narcisa Apreutesei, 2007-2008.

L. Premii, distincții.

M. Alte realizări semnificative.

Data,

Nume, semnătura
Tarniceriu Carmen-Oana

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

TEMNEANU MARINEL-COSTEL

A. Teza de doctorat.

Contribuții la studiul pierderilor de energie în materiale magnetice în regim deformant, 1999

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

C1. Donciu C., Temneanu M., Măsurăm împreună cu Codrin Donciu și Marinel Temneanu Editura PIM, 2014, ISBN: 978-606-13-2207-7, 160 pag

C2. Blaga P., Minciuc E., Temneanu M., Donciu C., Ionel I., Lelea D., Figură F., Măsurarea mărimilor electrice și neelectrice, Editura Academiei Oamenilor de Știință din România, 2011, ISBN: 978-606-8371-17-7, 144 pag

C3. M. Temneanu ,Pierderi de energie în materiale magnetice, ISBN 978-606-520-422-5, Ed. PIM, Iași, 2009, 142 pg.

C4. Donciu C., Fosolau C., Temneanu M., Tehnici de teletransmisie a datelor în învățământul tehnic la distanță, Casa de Editură Venus, Iași, 2006, ISBN: 973-756-009-4, 158 pag

C5. C. Foșalău, C. Zet, M. Temneanu, E. Vremeră, Noi materiale în construcția de senzori,

ISBN 973-756-020-5, Casa de Editură Venus, Iași, 2006, 178 pg

C6. C. Schreiner, R. Ciobanu, M. Temneanu, Advanced on Quality and Reliability Assurance of Electrical Materials ISBN 973-621-030-8, (în limba engleză), Ed. "Gh. Asachi", Iași, 2002, 135 pg.

C7. M. Temneanu T. Balan, capitol in volumul: Tendințe novatoare în instrumentație și măsurări electrice , Ed. Sedcom Libris, ISBN 973-8028-76-0, Iași, 2001

C8. M. Temneanu, M. Olariu, Indrumar de laborator pentru Materiale pentru inginerie electrica – partea II, 110 pagini, 2019, ISBN: 978-606-13-5396-5, Editura PIM

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

D1 C. Schreiner, R. Ciobanu, M. Temneanu, Calitate, fezabilitate, fiabilitate, diagnoză Rotaprint U.T. "Gh. Asachi" Iași, 2000, 199 pg.

D2. Schreiner, R. Ciobanu, M. Temneanu, Calitate, fezabilitate și fiabilitate, Rotaprint U.T. "Gh. Asachi" Iași, 1997, 209 pg.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

Articole publicate în reviste cotate ISI, cu factor de impact

- F.1. Temneanu, MC; Donciu, C and Serea, E, Site-Specific Calibration of S/P Amplitude Ratios for Near-Real-Time Seismic Acceleration Estimation at the Iasi Stations, Romania, Feb 19 2026, APPLIED SCIENCES-BASEL, 16(4)
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- F.4. Donciu, C; Temneanu, MC and Serea, E, Direct FFT oversampling without zero-padding, Oct 24 2025, SCIENTIFIC REPORTS, 15(1)
- F.5. Serea, E; Donciu, C and Temneanu, MC, Complexities of Lighting Measurement and Calculation, Oct 13 2025, METROLOGY, 5(4)
- F.6. Temneanu, MC; Donciu, C; Serea, E Distance Measurement Between a Camera and a Human Subject Using Statistically Determined Interpupillary Distance, Appliedmath, Sep 3 2025, Vol. 5, Issue 3
- F.7. Temneanu, MC; Donciu, C; Serea, E Self-Contained Earthquake Early Warning System Based on Characteristic Period Computed in the Frequency Domain, Applied Sciences-Basel, Aug 15 2025, Vol. 15, Issue 16
- F.8. Serea, E; Donciu, C; Temneanu, MC Modular System for High-Precision Irrigation with Nutrients Addition, Applied Sciences-Basel, Aug 10 2025, Vol. 15, Issue 16
- F.9. Donciu, C; Temneanu, MC; Serea, E PV Panels Fault Detection Video Method Based on Mini-Patterns Appliedmath, Jul 10 2025, vol.5, issue 3
- F.10. Donciu, C; Serea, E; Temneanu, MC Frequency domain estimation method of the characteristic period of the P wave of earthquakes, Frontiers In Physics, Feb 25 2025, Vol.13
- F.11. Donciu, C; Serea, E; Temneanu, MC, Residential Electricity Consumption Behaviors in Eastern Romania: A Non-Invasive Survey-Based Assessment of Consumer Patterns, ENERGIES, SEP 14 2025, vol. 18, issue 18
- F.12. Donciu C, Serea E, Temneanu MC, Frequency Seismic Response for EEWS Testing on Uniaxial Shaking Table, ENTROPY, eISSN, 1099-4300, vol. 25, issue 4, 2023
- F.13. Serea E, Penciu M, Temneanu M., Donciu C., Video Distance Measurement Technique Using Least Squares Based Sharpness Cost Function, Mathematics, eISSN 2227-7390, vol.10, sept. 2022
- F.14. Can, S.Yilmaz, A.E, Donciu, C, Temneanu, M, Ardeleanu, A.S, "Electrostatic discharge protective garment: Results obtained for knitted fabrics with hybrid yarns", Tekstil ve Konfeksiyon, ISSN:1300-3356, Volume 25, Issue 3, July 2015, Pages 220-228
- F.15. Donciu, C., Temneanu, M., An alternative method to zero-padded DFT, MEASUREMENT, ISSN:0263-2241, vol. 70 Pages: 14-20, JUN 2015,
- F.16. Donciu C., Temneanu M., *Algorithm for video-intelligent inspection of the textile materials imprint with repetitive pattern*, Industria Textila, ISSN:1222-5347, vol. 60, issue 6, pp. 326-333, 2009;
- F.17. Donciu C., Temneanu M., *Integrated visual-smart inspection system for the textile fabrics developed by image virtual processing methods*, Industria Textila, ISSN:1222-5347, vol. 60, issue 3, pp. 134-145, 2009
- F.18. Donciu C., Temneanu M., *E-Learning System for Students on Electrical Engineering*, International Review of Electrical Engineering-IREE, ISSN:1827-6660, vol. 3, issue 6, pp. 1087-1096, 2008;
- F.19. Donciu C., Temneanu M., Brinzila M., *Urban traffic pollution reduction using an intelligent video semaphoring system*, Environmental Engineering and Management Journal, ISSN:1582-9596, vol. 6, issue 6, pp. 563-566, 2007
- F.20. Donciu C., Temneanu M., Brinzila M., *Sustainable irrigation based on intelligent optimization of nutrients applications*, Environmental Engineering and Management Journal, ISSN:1582-9596, vol. 6, issue 6, pp. 537-540, 2007

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F.22. R. Ciobanu, T. Balan, M. Temneanu, *A theoretical approach in reliability estimation of power capacitors*, Buletinul I.P.I., Tomul XLI, Fasc. 1-2, sect. III, 1995, pp. 57-63, INSPEC

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H.2. C. Foșalău, M. Temneanu, Study Upon the Amorphous Magnetic Wires Properties Under Various Factors of Influence, Buletinul I.P.I., Tomul LII (LVI), Fasc. 3-4, 2006, pp. 115-122

H.3. M. Temneanu, C. Foșalău, C. Temneanu, Modeling the Static Hysteresis Loop of Magnetic Materials, Buletinul I.P.I., Tomul LI (LV), Fasc. 1-2, 2005, pp. 117-120

H.4. C. Foșalău, M. Brânzilă, M. Temneanu, L. Niță, A digital Acquisition Board with Data Transfer by Parallel Ports, Buletinul I.P.I., Tomul L (LIV), Fasc. 5, 2004, pp. 826-829

H.5. M. Branzila, M. Temneanu, M. Crețu, M. Pereira, C. Donciu, System for Environmental Monitoring Using a Data Acquisition Board by Parallel Port, Buletinul I.P.I., Tomul L (LIV), Fasc. 5, 2004, pp. 737-742

H.6. M. Temneanu, T. Balan, D. Balan, Time Domain Hysteresis Model Based on Core Loss Separation, Buletinul I.P.I., Tomul L (LIV), Fasc. 5, 2004, pp. 910-914

H.7. M. Temneanu, C. Zet, C. Foșalău, C. Donciu, Sample Auto-Ranging Data Acquisition Using Low Level Programming Techniques, Buletinul I.P.I., Tomul L (LIV), Fasc. 5, 2004, pp. 906-910

H.8. O. Postolache, M. Pereira, P. Girao, M. Crețu, M. Temneanu, A distributed hybrid neural network based system for water quality monitoring, Buletinul I.P.I., Tomul XLVIII, Fasc. 5B, sect. III, 2002, 235-242

H.9. C. Foșalău, C. Zet, M. Temneanu, Instrumentație virtuală pentru măsurarea performanțelor convertoarelor D/A, Revista de instrumentație virtuală, nr. 6, 1999, pp. 71-76

H.10. M. Temneanu, T. Balan, C. Foșalău, Utilizarea instrumentației virtuale în măsurarea mărimilor magnetice de material, Revista de instrumentație virtuală, nr. 6, 1999, pp. 83-84

H.11. C. Foșalău, E. Vremeră, M. Temneanu, Virtual characteriscope for bipolar transistors, Buletinul I.P.I., Tomul XLV, Fasc. 5A, sect. III, 1999, pp. 236-239

H.12. M. Temneanu, C. Foșalău, C. Temneanu, Virtual instrumentation in measurements. Case of study, Buletinul I.P.I., Tomul XLV (IL), Fasc. 5A, 1999, pp. 295-298

H.13. M. Temneanu, T. Balan, D. Balan, Causal and measurable quantities in magnetic material analyze, Buletinul I.P.I., Tomul XLV, Fasc.5A, sect. III, 1999, pp. 205-208

H.14. M. Temneanu, C. Temneanu, Chua type hysteresis model, Buletinul I.P.I., Tomul XLIV (XLVIII), Fasc. 1-2, 1998, pp. 67-71

H.15. M. Temneanu, D. Balan, T. Balan, The study of inductors with transverse command using Chua type models for magnetic materials, Buletinul I.P.I., Tomul XLI, Fasc.3-4, sect. III, 1998, pp. 125-129

H.16. R. Ciobanu, W. Pfeiffer, T. Balan, M. Temneanu, The specific behaviour of electrotehnical papers under high frequency partial discharges, Buletinul I.P.I., Tomul XLIII, Fasc.1-2, sect. III, 1997, pp. 91-96

H.17. T. Balau-Mandru, M. Temneanu, I. Iacomi, I. Balau-Mandru, G. Ioanid, Studiul influenței hidrolizatorilor de collagen și polisiloxanilor asupra comportării dielectrice și termice a peliculelor din PVC plastifiat expandate in CEIF, Buletinul I.P.I., Tomul XLIII, Fasc 3-4, sect. 8, 1997, pp. 165-171

H.18. T. Bălău-Mândru, M. Temneanu, I. Bălău-Mândru, Studiul influenței unor auxiliari asupra caracteristicilor de structură poroasă a peliculelor din PVC plastifiat expandate în CEIF, Buletinul I.P.I., Tomul XLIII, Fasc 3-4, sect. 8, 1997, pp. 159-164

- H.19. T. Bălău-Mândru, I. Iacomi, M. Temneanu, I. Bălău-Mândru, G. Ioanid, Comportarea reologică a peliculelor din PVC plastifiat expandate în CEIF, Buletinul I.P.I., Tomul XLIII, Fasc. 3-4, sect. 8, 1997, pp. 153-158
- H.20. C. Schreiner, L. Cantemir, M. Temneanu, A New Complex Parameter in Establishing the Transient Moving Regime of Linear Induction Motors, Buletinul I.P.I., Tomul XLI (XLV), Fasc. 3-4, sect. III, 1995, pp. 123-130
- H.21. M. Temneanu, T. Balan, D. Balan, Some observations regarding magnetic materials behaviour analyze, Buletinul I.P.I., Tomul XLI, Fasc. 5, sect. III, 1995, pp. 445-450
- H.22. M. Temneanu, A. Dumitrașc, B. Balan, Skin resistance variation measurements, Buletinul I.P.I., Tomul XLI, Fasc. 5, sect. III, 1995, pp. 451-457

I. Lucrări științifice publicate în volumele conferințelor.

Articol/studiu publicat în volumul unei manifestări științifice indexate WOS

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- I.2. Adascalitei, A, Aradoaiei, S, Temneanu, M, El-Din Zein El-Din, AS, "Implement Online Laboratories in Electrical and Computer Engineering Education using Virtual Learning Environments" Proceedings of the 15th International Scientific Conference on eLearning and Software for Education (eLSE) 2019, pag. 162-170
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J. Inventii.

K. Contracte de cercetare.

Calitatea	Nr. Crt.	Titlul proiectului	Număr contract/ tip	Valoare contract (RON)	Perioada/ anul
Director proiect - proiecte internaționale	1	Instrumentatie la distanta pentru noile griduri regionale dedicate	PN II Capacități-bilateral 62CB/2008 Romania Bulgaria	121869.49	2008
Director proiect - proiecte naționale	2	Sistem de videointerfonie multifuncțional conectat la internet cu protecție la atacuri cibernetice	Cod SMIS 338210	1.602.798	2025-2028
	3	Sistem de avertizare seismică cu deblocarea automată a ușilor de intrare prevăzute cu interfon	cod SMIS 137414 POR 2014-2020	1419027.54	2020-2025

4	Echipament inteligent de monitorizare si optimizare a consumului de energie electrica la consumatori rezidentiali dotat cu semnatura	PN III 13PTE/2016	384412.00	2017 - 2018
5	Contor inteligent bazat pe evaluarea semnaturii energetice	PN II Parteneriat 30/2012	1113000.00	2012 - 2016
6	Sistem videointeligent de comanda a semaforizarii intersectiilor destinat diminuarii congestiilor rutiere si reducerii poluarii fizico-chimice si fonice a mediului	PN II Parteneriat 71-100/2007	736427.00	2007 - 2010
7	Sistem integrat de inspectie video-inteligenta a materialelor textile, dezvoltat prin metode virtuale de procesare a imaginii	CEEX 57/2006	499000.00	2006 - 2008
	Ecrane pentru constructii speciale bazate pe structuri chiral-fagure	CEEX 46/2006	550000.00	2007 - 2008
8	Dezvoltarea parteneriatelor C/D in vederea promovării unor proiecte europene în domeniul sistemelor distribuite de monitorizare a mediului	CEEX 201/2006	155400.00	2006 - 2008
9	Studiu pentru fundamentarea directiilor de dezvoltare a metrologiei industriale in romania	Program sectorial al MEC - contract nr. 7/206281/2005	10000.00	2005
10	Magnetoscopie virtuala	Gr.CNCSIS 33479/2002 - T.70	5000.00	2002
		Gr.CNCSIS 33557/2003 - T.81	3600.00	2003
11	Implementarea tehnicilor moderne de achizitie si prelucrare numerica a semnalelor in masurarea pierderilor de energie in materiale magnetice in regim nesinusoidal	Gr.CNCSIS 37089/2000 - T.49	2500.00	2000
		Gr.CNCSIS 35259/2001 - T.65	4500.00	2001
12	Modelarea caracteristicilor materialelor magnetice	Gr.ANSTI 6177/2000 - T.B28	2000.00	2000

		utilizand algoritmi inteligentei artificiale	Gr.ANSTI 6177/2000 - T.A38	2500.00	2001
Membru echipă - proiecte internațio- nale	1	Innovative technology for multilayer EMI shields based on spatial fabric	PN II ERA NET 7-071/2012	405000.00	2013 - 2014
	2	Dezvoltarea de bio- senzori implantabili dedicați evaluării neurotransmițătorilor, bazați pe depuneri de compozite polimerice conjugate pe structuri carbonice nano-poroase/ development of implantable bio-sensors for neurotransmitters evaluation, based on electrochemically coated conjugated polymer composites on carbon nano-porous structures – carpolsense	PN II Capacități- bilateral 567/2012	26578.20	2012 - 2013
	3	Dezvoltarea de biosenzoriprin intermediul unei tehnologii inovative de electroacoperire a structurilor carbonice cu polimeri activi	PN II ERA NET 7-038/2011	381282.62	2011 - 2012
	4	Tehnologii inovative de asamblare-dezasamblare a componentelor nemetale industriale, bazate pe adezivi electro- activi nanostructurați	PN II ERA NET 7-042/2011	628919.68	2011 - 2012
	5	COMPOZITE POLIMERICE NANO- ACTIVE AVANSATE CU METALE RARE SI OXIZI METALICI PENTRU APLICATII IN MICROELECTRONICA IN DOMENIUL GHz	PN II Capacități- bilateral 436CB/2010	48798.03	2010 - 2012
	6	Nanocompozite polimerice conductive cu structura predefinita si proprietati dielectrice si emc dedicate ecranarii si realizarii de panouri	PN II ERA NET 7-014/2008	1899986.52	2008- 2010
	7	Ecrane si panouri absorbante pentru utilizari speciale bazate pe compozite nanostructurate cu arhitectura predefinita si proprietati dielectrice si	PN II Capacități- bilateral 63CB/2008	125646.14	2008 - 2009

		electromagnetice personalizate			
	8	Filme ceramice subțiri nanoporoase din cristale zeolitice pe baza de siliciu pentru materiale cu constanta dielectrica redusa	PN II Capacități-bilateral 64CB/2008	204851.07	2008 - 2009
Membru echipă - proiecte naționale	9	Sistem video de evaluare a tipodimensiunilor cleintilor magazinelor on-line de haine	SMIS 137825 POR 2014-2020	1242000.00	2020-2023
	10	System OFDM bazat pe utilizarea FFT cu argument neintreg	PN III PED 213PED/2017	330000.00	2017 - 2018
	11	Mini-patern-urile, soluția coordonării video a procesului de confecționare a produselor textile	PN II Parteneriat 251/2014	624500.00	2014 - 2017
	12	Ecrane electromagnetice spațiale bazate pe funcționalizare diferențială cu nano/micro-particule	PN II Parteneriat 260/2014	466000.00	2014 - 2017
	13	Haine ESD realizate din fibre cu miez conductor tricotat bistrat	PN II Parteneriat 179/2012	720600.00	2012 - 2014
	14	Sistem video automatizat cu grad ridicat de interschimbabilitate pentru etalonare metrologica a echipamentelor de masurare	PN II Parteneriat 72-173/2008	580510.00	2008 - 2011
	15	Microtraductoare cu elemente sensibile bazate pe nanofire magnetice	Colab.PN II Parteneriat 72-157/2008	384295.80	2008 - 2011
	16	Microsenzori magnetici implantabili pentru aplicatii medicale	Colab.PN II Parteneriat 12-110/2008	40000.00	2008 - 2011
	17	Sistem pe baza de microfibre magnetice pentru neutralizarea activarii de la distanta a explozivilor prin intermediul telefoanelor mobile	Colab.PN II Parteneriat 82-096/2008	30000.00	2008 - 2011
	18	Microsenzori acustici pe baza de nanofire magnetostriptive pentru aplicatii medicale	Colab.PN II Parteneriat 12-114/2008	80000.00	2008 - 2011
	19	Senzori bazati pe elemente de detectie	Colab.PN II Parteneriat 12-109/3/2008	79995.00	2008 - 2011

	nanometrice pentru aplicatii in nano-medicina			
20	Metodologie dielectrica nedistructiva neinvaziva comparativa de detectare rapida a ingredientelor cu potential major de risc pentru sanatate din produsele alimentare	PN II Parteneriat 51-015/2007	627691.01	2007 - 2010
21	Fotodetectori bazati pe nanofire multisegment	Colab.PN II Parteneriat 11-060/2007	142800.00	2008 - 2010
22	Racordarea principiilor romanesti de evaluare si atestare a institutiilor de cdi la criteriile era-ro-era	Colab.CEEX 238/2006	10000.00	2006 - 2008
23	Crearea unui mecanism suport de determinare a indicatorilor stiintifici pentru evaluarea si testarea institutiilor romanesti de cdi, nu cele academice si universitare, in perspectiva aderarii la era	Colab. CEEX 06-8-66/ 2006	160000.00	2006 - 2008
24	Sistem inteligent de irigare de precizie implementabil pe structurile automate cu deplasare circulara sau liniara	CEEX 51/2006	467300.00	2006 - 2008
25	Sistem informatic de instruire interactiva bazat pe algoritmi multi task de mare viteza dezvoltat pe platforma reconfigurabila online pentru aplicatii de tip laborator virtual	CEEX 137/2006	606164.00	2006 - 2008
26	Dezvoltarea parteneriatelor c/d in vederea promovarii de proiecte europene in domeniul video inspectiei inteligente a materialelor textile	CEEX 194/2006	160000.00	2006 - 2008
27	Nanofire de oxizi metalici semiconductori magnetici diluati	Colab.CEEX 1/2006	90392.60	2006 - 2008
28	Extinderea posibilitatilor de masurare continua on-line a parametrilor poluanti din apa si aer pentru un laborator de mediu	CEEX 110/2006	770000.00	2006 - 2008

29	Biocompozite obtinute prin reciclarea deseurilor de pet si utilizarea de derivati ligno-celulozici	CEEX 79/2006	720000.00	2006 - 2008
30	Obtinerea si caracterizarea unor materiale metalice nanocristaline	CEEX 99/2006	251838.00	2006 - 2008
31	Metode avansate de proiectare si testare a sistemelor de izolatii destinate functionarii in conditii extreme si tolerante la defectare	Gr.CNCSIS 33371/2004 - T.15	15000.00	2004
		Gr.CNCSIS 34664/2005 - T.16	41000.00	2005
		Gr.CNCSIS 164/2006 - T.17	44000.00	2006
32	Sistem informatic virtual de instruire interactiva la distanta in domeniul masurarilor electrice	Gr.CNCSIS 27637/2005 - T.18	25096.00	2005
		Gr.CNCSIS 164/2005 - T.26	30000.00	2006
		Gr.CNCSIS 80/2007 - T.16	34000.00	2007
33	Dezvoltarea capacitatii de integrare a Romaniei in cadrul programelor, platformelor si retelelor europene in domeniul metodelor comparative neinvazive si nedistructive de analiza a calitatii si securitatii alimentelor	CEEX 173/2006	150000.00	2006 - 2008
34	Dezvoltarea capacitatii de integrare a Romaniei in cadrul programelor, platformelor si retelelor europene in domeniul obtinerii de biocompozite cu aplicatii multisectoriale	CEEX 179/2006	130000.00	2006 - 2008
35	Dezvoltarea capacitatii de integrare a Romaniei in cadrul programelor, platformelor si retelelor europene in domeniul sistemelor virtuale si distribuite de design si management a cercetarii	CEEX 188/2006	155400.00	2006 - 2008
36	Dezvoltarea parteneriatelor c/d pentru includerea excelentei romanesti in vederea promovarii de proiecte comune in domeniul	CEEX 202/2006	150000.00	2006 - 2008

	materialelor avansate nanostructurate destinate ecranelor de protectie la radiatii electromagnetice in domeniul GHz			
37	Sistem automat de iradiere a filmelor polimerice cu un numar prestabilit de particule	Gr.CNCSIS 27637/2005 - T.61	24000.00	2005
		Gr.CNCSIS 164/2006 - T.82	23000.00	2006
		Gr.CNCSIS 80/ 2007- T.57	36000.00	2007
38	Nanofire multistrat cu structura de tip valva de spin. Proprietati de magnetorezistenta gigant. Structura cadru	CEEX 21/2005	120000.00	2005 - 2008
39	Noi materiale in constructia de dispozitive de masura	Gr.CNCSIS 27637/2005 - T. 25	10000.00	2005
		Gr.CNCSIS 164/2006 - T.35	16000.00	2006
		Gr.CNCSIS 80/2007 - T.24	16000.00	2007
40	Sistem informatic virtual pentru educatie interactiva la distanta in domeniul ingineriei electrice	PNCDI - Infosoc 132/2004	150000.00	2004 - 2006
41	Microtraductoare cu elemente sensibile din materiale magnetice amorse	PNCDI - Matnantech 258/2004	150000.00	2004 - 2006
42	Metoda avansata de analiza a calitatii si de optimizare a structurii si tehnologiei bio_ si nano_compozitelor, pe baza spectroscopiei dielectrice corelata cu teoria elementului finit	Grant tip E CNCSIS, cod 82 / 2004.	65000.00	2004
43	Histerezis magnetic. De la experiment la modelare analitica si CAD electric	Gr.CNCSIS: 34280/99-T44 37089/2000-T28 35259/2001-T7	12500.00	1999-2001

L. Premii, distincții.

M. Alte realizări semnificative.

Data,

28 februarie 2026

Nume, semnătura

Temneanu Marinel Costel

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Numele și prenumele: sef lucr. Dr. Ing. Temneanu Mitica

A. Teza de doctorat

Contributii privind automatizarea masinilor dotate cu grinda plutitoare, utilizate pentru distribuirea de mixture asfaltice, betoane si agregate

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS)

- Temneanu M., Tehnica reglării și control automat, Editura PIM (Editură recunoscută CNCSIS), Iași, 2009, ISBN 978-606-520-386-0, 220 pag
- Temneanu M., Metode numerice – folosite în electrotehnică, Casa de Editură “Venus” (Editură recunoscută CNCSIS), Iași, 2005, ISBN 973-7960-55-6, 145 pag
- Temneanu M., Metode numerice – Indrumar de laborator, Editura PIM (Editura recunoscuta CNCSIS), Iasi, 2009, ISBN 978-606-520-5772, 80 pag.,

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

- Nemescu V.M., M.Cleju, M.Temneanu, Bazele automatizării, Ed. Gh.Asachi Iași, ISBN 973-9178-26-X, 1995, 405 pag.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

- Mircea V. Nemescu, Mitica Temneanu, Self-modulation in nonlinear electrical circuits presenting jump resonance and variable inertial damping International Journal of Circuit Theory and Applications, Vol. 42, Issue 4, 2014, DOI: 10.1002/cta.1855, pp 343, 357. Impact Factor: 1.625, Scor Relativ de Influenta:

0.85442.

- Temneanu M., *Computer assisted microactuator made from SMA/elastomer composite*, Revista Metalurgia International, ISSN 1582-2214, Vol. XIV, 2009, pp. 19-23. Cotat ISI.
- Mircea V. Nemescu , MITICA TEMNEANU *Self-modulation through resonant jump variations in electromechanical systems containing nonlinear electric circuits*, Revue roumaine des sciences techniques, Série Électrotechnique et Énergétique ISSN: 0035-4066, 2011, issue 3, 285-294, Cotata ISI, Impact Factor: 0.059.

G. Lucrări științifice publicate în reviste din străinătate

- Mitica Temneanu, *Feedback nonlinear systems having resonant jumps at simultaneous variation of time constant of the linear part and range of the constant-slope, saturation-type nonlinearity*, International Conference on Intelligent Control, Modelling and Systems Engineering (Published in Recent Advances in Intelligent Control, Modeling and Simulation, ISBN: 978-960-474-365-0, pp. 113-117), Cambridge, USA, 2014. Indexata BDI: GoogleScholar
- Mitica Temneanu, *Self-modulation by resonant jumps in feedback nonlinear systems at variation of transfer coefficient of linear part and slope of the constant-range, saturation-type nonlinearity*, WSEAS International Conference on Modern Computer Applications in Science and Education, (Published in Modern Computer Applications in Science and Education, ISBN: 978-960-474-363-6, pp. 70-74), Cambridge, USA, 2014. Indexata BDI: GoogleScholar
- Mitica Temneanu, *Resonant jumps in feedback nonlinear systems at simultaneous variation of time constant of the linear part and slope of the constant-range, saturation-type nonlinearity*, WSEAS International Conference on Computer Engineering and Applications, (Published in Recent Advances in Computer Engineering, Communications and Information Technology, ISBN: 978-960-474-361-2 , pp. 44-48), Tenerife, Spain, 2014. Indexata BDI: GoogleScholar
- Mitica Temneanu, *Self-modulation by resonant jumps in feedback nonlinear systems at variation of transfer coefficient of linear part and slope of the constant-range, saturation-type nonlinearity*, WSEAS International Conference on Mathematical Models for Engineering Science, (Published in Advances in Mathematical Models and Production Systems in Engineering, ISBN: 978-960-474-387-2, pp. 95-99), Brasov, Romania, 2014. Indexata BDI: GoogleScholar
- Mitica Temneanu, Mircea Nemescu, *Slow oscillations in feedback nonlinear system having variable linear part*, Conference on CCSC'13, (Published in Recent Advances in Computer Science, ISBN: 978-960-474-311-7, pp. 256-260), Rhodes Island, Greece, 2013. Indexata BDI: GoogleScholar .
- Mitica Temneanu, *Slow oscillations in feedback nonlinear system having variable saturation-type nonlinearity*, Conference on CCSC'13, (Published in Recent Advances in Computer Science, ISBN: 978-960-474-311-7, pp. 261-265), Rhodes Island, Greece, 2013. Indexata BDI: GoogleScholar
- Temneanu M., Nemescu V.M., Cleju M., 1998, *The automatic control system of*

floating beam's position, Proceedings of 5th International Symposium on Methods and Modells in Automation and Robotics, 25-29 Aug., Miedzyzdroje, Poland, Proceedings of the Fifth International Symposium on Methods and Models in Automation and Robotics, (vol.2)pp.533-536, ISBN 83-88764-72-4. Indexat BDI: Inspec

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

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J. Invenții

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K. Contracte de cercetare/granturi

Programul/Proiectul	Titlul	Funcția
Cod 275, Contract CNCSIS nr. GR80 /23.05.2007	Dezvoltarea unui nou tip de microactuator controlat prin computer din materiale compozite AMF/elastomer, cu memoria formei	Membru in echipa de cercetare
Cod 275, Contract CNCSIS nr. 63GR /19.05.2006	Obținerea materialului compozit AMF/elastomer, cu memoria formei	Membru in echipa de cercetare
Cod 534, Contract CNCSIS nr. 27637 / 2006	Dezvoltarea unei structuri de testare si control a tensiunii si frecarii firelor textile in procesele de fabricatie a firelor si tesaturilor	Membru in echipa de cercetare
Cod 476, Contract CNCSIS nr. 24371/24.06.2005	Testarea in condiții de laborator a elementelor multifuncționale hidraulice și electrice obținute	Membru in echipa de cercetare
Cod 534, Contract CNCSIS nr. 27637 / 2005	Dezvoltarea unei structuri de testare si control a tensiunii si frecarii firelor textile in procesele de fabricatie a firelor si tesaturilor	Membru in echipa de cercetare
Cod 476, Contract CNCSIS nr. 33371/29.06.2004	Studiul transformărilor induse termic sau mecanic, pana la nivelul nanostructurii martensitice, in materialele multifuncționale cu memoria formei. Aplicații de tip senzor și actuator	Membru in echipa de cercetare
Cod 400, Contract CNCSIS nr. 33479 / 2002	Cercetări privind retehnologizarea echipamentelor de distribuit mixturi asfaltice, betoane și agregate prin introducerea controlului automat al nivelului materialului și a poziției grinzii finisoare	Membru in echipa de cercetare
Cod 246, Contract CNCSIS nr. 35259 / 2001	Cercetări privind retehnologizarea echipamentelor de distribuit mixturi asfaltice, betoane și agregate prin introducerea controlului automat al nivelului materialului și a poziției grinzii finisoare	Membru in echipa de cercetare

L. Premii, distincții

M. Alte realizări semnificative

Data

Semnătura

27.10.2025

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Numele și prenumele: **TRANDABĂȚ Alexandru Florentin**

A. Teza de doctorat

CERCETĂRI PRIVIND UTILIZAREA MĂSURĂRILOR DISTRIBUITE ÎN CADRUL SISTEMELOR DE ASIGURARE A CALITĂȚII INDUSTRIALE- Martie 2009

Domeniul: Inginerie Electrică

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS)

1. Alexandru Florentin Trandabăț, Cristina Schreiner, Marius Pîslaru CERCETĂRI PRIVIND UTILIZAREA MĂSURĂRILOR DISTRIBUITE ÎN CADRUL SISTEMELOR DE ASIGURARE A CALITĂȚII INDUSTRIALE, 201 pg, Editura PIM 2010, ISBN 978-606-520-673-1
2. Marius Pîslaru, Cristina Schreiner, Alexandru Florentin Trandabăț CERCETĂRI PRIVIND UTILIZAREA MODELELOR NEURO-FUZZY ÎN CADRUL SISTEMELOR DE ASIGURARE A CALITĂȚII 210 pg, Editura PIM 2010 ISBN 978-606-520-676-2
3. Alexandru Florentin Trandabăț MANAGEMENTUL CALITATII MEDIULUI VOL 2 152 pagini Ed. PIM 2025 ISBN
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D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

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19. Pîslaru, Marius; Avasilcai, Silvia; **Trandabăț**, Alexandru. *Environmental sustainability based on fuzzy models*. — Environmental Engineering and Management Journal 7(1):25–29. — 2008. IF=0.885
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G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

1. Ciobanu, Romeo Cristian; **Trandabat**, Alexandru Florentin; Aradoaei, Mihaela; Pachiu, Cristina ; Suchea, Mirela ; Dumitrache, Monica *Innovative Analysis of Electromagnetic Shielding Effect of Composite Materials using Specific Absorption rate of Electromagnetic Energy* SIELMEN 15th international Conference on Electromechanical and energy systems 16-17 oct. Chisinau- 2025
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5. Schreiner, Oliver; **Trandabăț**, Alexandru; L.-G. Patraș; A. Saridache. *Validation of the Integration and Functional Model of a Point of Care Platform*. — 2024 IEEE International Conference and Exposition on Electric and Power Engineering (EPEI), Iași, pp. 287–290; DOI: 10.1109/EPEI63510.2024.10758132. — 2024.
6. A. Saridache; L.-G. Patraș; **Trandabăț**, Alexandru; C. Schreiner; R. Machidon. *Functional Model of Device of Bracelet Type Based on Photoplethysmography*. — 2024 IEEE International Conference and Exposition on Electric and Power Engineering (EPEI), Iași, pp. 271–274; DOI: 10.1109/EPEI63510.2024.10758131. — 2024.
7. **Trandabăț**, Alexandru; Alexandru Arcire; Georgiana Patrascu; Adrian D.N. Saridache; Gianina Maria Gheorghian; Ionel Hogas, Cristina Schreiner. *A non-enzymatic chronoamperometric glucose sensor based on Screen-Printed Carbon Electrode (SPCE) modified with maghemite magnetic nanoparticles via physical vapour deposition (PVD)*. — 2022 International Conference and Exposition on Electrical and Power Engineering (EPE), Iași, pp. 269–274; DOI: 10.1109/EPE56121.2022.9959795. — 2022.
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9. **Trandabăț**, Alexandru; Alexandru Arcire; Romeo Cristian Ciobanu; Olga Plopa; Mihaela Aradoaei; Alin Olteanu Mosneagu (Andrei) Mona. *Design and modeling considerations for developing a millimolar Oxalic Acid detection sensor based on screen-printed carbon electrode and methilbenzenpirol*. — 2022 International Conference and Exposition on Electrical and Power Engineering (EPE), Iași, pp. 245–252; DOI: 10.1109/EPE56121.2022.9959778. — 2022.
10. Vasilache, Nicoleta; Diacu, Elena; Chiriac, Florentina Laura; Vasile, Gabriela Geanina; Paun, Iuliana; Pirvu, Florinela; Tenea, Anda Gabriela; Serban, Gabriel Valentin; **Trandabăț**, Alexandru.

Nitrate pollution and health risk assesment of groundwater in rural areas from Botosani, Romania. — International Symposium “The Environment and the Industry” (E-SIMI 2021), **Book of Abstracts**; DOI: 10.21698/simi.2021.ab27. — 2021

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J. Invenții

K. Contracte de cercetare/granturi

Director de proiect

1. 01.09.2024-30.08.2027 - I3-2023-INV1 Type of Action: I3-PJG (I3 Project Grants) Number: 210990180 acronym: *inkjet-bioAM* Type of Model Grant Agreement: I3 Action Grant Budget-

Based *Enabling multi-material inkjet printing for improved healthcare in biomedical production in Europe*

2. Contract 103/2003, CONTRIBUTII PRIVIND UTILIZAREA MASURARILOR DISTRIBUITE IN CADRUL SISTEMELOR DE ASIGURARE A CALITATII INDUSTRIALE, 04.2003-10.2005, Valoare UTI 11250.00, Grant TD /CNCSIS
3. Contract 5939/18.09.2006, CONTRIBUTII PRIVIND UTILIZAREA MASURARILOR DISTRIBUITE IN CADRUL SISTEMELOR DE ASIGURARE A CALITATII INDUSTRIALE, perioada 09.2006-12.2006, Valoare UTI 7000.00, CEEX M2 MD /CNCSIS
http://www.mct-excelenta.ro/fileadmin/mct/Rezultate/modulul_2/MD/MD_REZ_FINALE_26_IULIE.htm
4. Start-Up POS-CCE O 2.3.1 ID proiect 1368, COD SMIS 40789 Contract nr. 471/ 30.05.2013 fonduri UE autoritatea contractanta: ANCS NANO-CARPOL "Noi senzori hibridi bazați pe nanostructuri de carbon și polimeri electroactivi, cu aplicații intersectoriale"
<http://www.poscce.research.ro/uploads/competitii/o231/rezultate-selectie-evaluare-o231-ix.doc>
5. PN-II-RU-PD-2009, cod CNCSIS 342, Contract 50/2010/UEFISCDI Sistem distribuit de inteligenta ambientala, destinat eficientizarii consumului de resurse energetice și naturale în cladiri cu diverse functionalitati
http://cncsis.gov.ro/userfiles/file/PROIECTE%20PD%20%COMPETITIA%202009/REZULTAT E %20PD_DOMENIU%202_3.pdf
6. POC-A1- A1.1.4 – E-2015 ID 37 766, ct. 68/08.09.2016, SMIS 103847 ANCSI "Diversificarea activitatii de CD prin elaborarea de platforme nano-senzoriale pentru detectia electrochimica și cuantificarea unor bio- si imuno-markeri cu aplicatii medicale, de mediu si securitate", acronim NANO-IMUNELCHIM-PLAT 08.09.2016-07.09.2020
7. PNIII - ERANET, COFUND-MANUNET, nr. 16/2018, UEFISCDI "Îmbunătățirea tehnologiilor de printare pentru fabricarea economica a sistemelor de analiză tip Point of Care", acronim PRINTPoC 01.04.2018-31.03.2020
8. CONTRACT SUBSIDIAR NR. 7563/02.06.2020 TITLU PROIECT Sistem integrat de control al calitatii apei din panza freatica pe baza de senzori electrochimici finanțat prin Programul Operațional Competitivitate 2014-2020 Axa Prioritară 1 – Cercetare, dezvoltare tehnologică și inovare (CDI) în sprijinul competitivității economice și dezvoltării afacerilor Acțiunea 1.2.3. Parteneriate pentru transfer de cunoștințe Tip proiect – Parteneriate pentru transfer de cunoștințe

Membru in echipa

1. POC/524/2/2/ Cod MySmis **129410** Sistem integrat iSense de monitorizare prin telemedicina a pacientilor, dezvoltat in cluster IT Iconic 21.08.2020 – 20.06.2023
2. PNIII - ERANET MANUNET, nr: 96/2019, UEFISCDI "Dispozitive flexibile și elastice printate 4D de captare a energiei piezoelectrice, bazate pe elastomeri inovativi elctro-adaptabili", acronim 4DPrintEN 1.06.2019-31.05.2021
3. POC-A1- A1.1.4 – E-2015 ID 37 766 ct. 68/08.09.2016 "Diversificarea activitatii de CD prin elaborarea de platforme nano-senzoriale pentru detectia electrochimica și cuantificarea unor bio- si imuno-markeri cu aplicatii medicale, de mediu si securitate" 08.09.2016-07.09.2020
4. POS CCE OP 2.3.2, ID nr. 1571, Cod SMIS 44011, Nr. 620/30.12.2013. ANCSI „Crearea centrului de cercetare-dezvoltare pentru nano-senzori electrochimici cu aplicatii multisectoriale”, acronim NANO-ELCHISENS 30.12.2013-30.12.2015

5. ERA NET, nr. 7-038/2011 "Dezvoltarea de bio-senzori prin intermediul unei tehnologii inovative de electroacoperire a structurilor carbonice cu polimeri activi" 13.05.2011-20.12.2013
6. POC 2014-2020, A1.2.3. IDP_40_443, cod MySMIS:105689, ct nr. 86 /08.09.2016, Ctr. subsidiar nr. 6353/25.09.2017// 392/28.09.2017 „Parteneriate pentru transfer de cunoștințe în domeniul materialelor polimere folosite în ingineria biomedicală”, acronim POINGBIO 04.12.2017-03.12.2019
7. PNIII - ERANET, COFUND-MANUNET, nr. 16/2018, UEFISCDI "Îmbunătățirea tehnologiilor de printare pentru fabricarea economică a sistemelor de analiză tip Point of Care", acronim PRINTPoC 01.04.2018-31.03.2020
8. M-ERA.NET, nr. 9/2015 “Senzori integrați cu caracteristici microfluidice folosind tehnologia LTCC” 02.11.2015-29.12.2017
9. M-ERA.NET, nr. 51/2016 „Nanomateriale și arhitecturi inovatoare pentru aplicații integrate de captare a energiei piezoelectrice” 01.06.2016-01.06.2019
10. Contract 031891/2006 , REMOTE INSTRUMENTATION IN NEXT-GENERATION GRIDS, perioada 09.2006-09.2008, Valoare UTI 84018.00, SSA FP6-IST / CE
11. Contract 2003-3.4.2.1-2 / STRP 013641 , MATERIALE INTELIGENTE TIP CHIRAL-FAGURE PENTRU APLICATII MULTISECTORIALE , perioada 04.2005-09.2008, Valoare UTI 1527600.00, STRP NMP /CE
12. Low-cost and energy-efficient LTCC sensor/IR-UWB transceiver solutions for sustainable healthy environment (SENSEIVER)
13. SUSustainable management of toxic pollutants in Central Asia:towards a Regional Ecosystem Model for environmental security – SUSCAREM, Contract NATO 983931/2010 48 luni 16.500 euro
14. Shielding and absorbent panels for special purposes, based nano structured composites with predefined architecture and customised dielectric and EMC properties –EMROTUPAN, Contract 63CB/2008 18 luni 41.151 euro
15. Thin Film of Nanoporous Silica Zeolite Crystals on Ceramics for Low-Dielectric Constant Materials - FI LOW EPS, Contract 64CB/2008 18 luni 55.000 euro
16. International (Bilateral Ro-Bulgaria) Instrumentatie la distanta pentru noile griduri regionale dedicate/ Remote instrumentation for new dedicated regional GRIDS (RINGRID), Contract 62CB/2008 35836 euro 18 luni
17. International (Bilateral Ro-Cipru) Composite polimerice nano-active avansate cu metale rare și oxizi metalici, pentru aplicații în microelectronică în domeniul GHz/ Advanced nano-active composites of polymers (having b-ketoester functionalities) with rare metals and metal oxides, for microelectronic applications at GHz domain - RO-CY-NANOXPOL, Contract 436/2011 10.882 24 luni
18. International – MANUNET Robot multi-articulat cu miscari 3D independente pentru operatiuni de pozitionare precisa/ Articulated robot with independent 3D-motion for precise positioning operations – ROBOBUID, Contract 7-061/2012 19 luni 223.910 euro
19. International (Bilateral Ro- Grecia) Dezvoltarea de bio-senzori implantabili dedicați evaluării neurotransmițătorilor, bazați pe depuneri de compozite polimerice conjugate pe structuri carbonice nano-poroase/ Development of implantable bio-sensors for neurotransmitters evaluation, based on electrochemically coated conjugated polymer composites on carbon nano-porous structures – CarPolSense, Contract 567/2012 8.385 euro 19 luni

20. Contract 72-173/2008 SISTEM VIDEO AUTOMATIZAT CU GRAD RIDICAT DE INTERSCHIMBABILITATE PENTRU ETALONARE METROLOGICĂ A ECHIPAMENTELOR DE MĂSURARE, perioada 2008-2011, Contract 1130000 RON, PN2 Parteneriate / CNMP
21. Contract 51-015/2007 METODOLOGIE DIELECTRICA NEDISTRUCTIVA, NEINVAZIVA, COMPARATIVA DE DETECTARE RAPIDA A INGREDIENTILOR CU POTENTIAL FACTOR DE RISC PENTRU SANATATE DIN PRODUSELE ALIMENTARE, perioada 09.2007- 09.2010, Valoare UTI 1050000.00 PN2 Parteneriate / CNMP
22. Contract 132/2007, REMOTE INSTRUMENTATION IN NEXT-GENERATION GRIDS, perioada 04.2007-07.2008, Valoare UTI 90160.00, CORINT / CNMP
23. NANOCOMPOZITE POLIMERICE CONDUCTIVE CU STRUCTURA PREDEFINITA SI PROPRIETATI DIELECTRICE SI EMC DEDICATE ECRANARII SI REALIZARII DE PANOURI ABSORBANTE PENTRU CLADIRI SPECIALE PN II ERA NET 7-014/2008 2009-2010
24. PARTENERIAT PENTRU CERCETARE DE EXCELENTA IN DEZVOLTAREA APTITUDINILOR ANTREPRENORIALE SI A CAPITALULUI UMAN COMPETITIV IN ECONOMIA SI SOCIETATEA BAZATE PE CUNOASTERE SI INOVARE PN II Parteneriat 91-069/2007 2007 - 2010
25. Contract 202/2006, DEZVOLTAREA PARTENERIATELOR C/D PRIN INCLUDEREA EXCELENTEI ROMANESTI, ÎN VEDEREA PROMOVĂRII DE PROIECTE COMUNE ÎN DOMENIUL MATERIALELOR AVANSATE NANOSTRUCTURATE DESTINATE ECRANELOR DE PROTECTIE LA RADIATII ELECTROMAGNEICE IN DOMENIUL GHZ, perioada 09.2006-09.2008, Valoare UTI 150000.00, CEEX M3 / CNMP
26. 51 / 2006, SISTEM INTELIGENT DE IRIGARE DE PRECIZIE IMPLEMENTABIL PE STRUCTURI AUTOMATE CU DEPLASARE CIRCULARA SAU LINIARA, perioada 2006 - 2008, Valoare UTI 467300, Program CEEX USAMV - AGRAL
27. Contract 201/2006, DEZVOLTAREA PARTENERIATELOR CD IN VEDEREA PROMOVARII UNOR PROIECTE EUROPENE IN DOMENIUL SISTEMELOR DISTRIBUITE DE MONITORIZARE A MEDIULUI, perioada 2006-2008, Valoare UTI 155400, Program CEEX CNMP M3
28. Contract 57/2006, SISTEM INTEGRAT DE INSPECTIE VIDEO-INTELIGENTA A MATERIALELOR TEXTILE DEZVOLTAT PRIN METODE VIRTUALE DE PROCESARE A IMAGINII, perioada 2006-2008, Valoare 499000.00, CEEX - MODUL 1 CNMP
29. 46/2006, ECRANE PENTRU CONSTRUCTII SPECIALE BAZATE PE STRUCTURI CHIRAL-FAGURE , perioada 09.2006-09.2008, Valoare UTI 555000.00, CEEX M1/ MATNANTECH
30. SISTEM DE MASURARE DISTRIBUITA DEZVOLTAT PRIN METODE DE INSTRUMENTATIE VIRTUALA A.Ad. 33557/2003, cod 330, T.57 GR. 33371/2004, cod 330, T. 847
31. Contract 137 / 2006, SISTEM INFORMATIC DE INSTRUIRE INTERACTIVA BAZAT PE ALGORITMI MULTITASK DE MARE VITEZA DEZVOLTAT PE PLATFORMA RECONFIGURABILA ONLINE PENTRU APLICATII DE TIP LABORATOR VIRTUAL, perioada 2006-2008, Valoare UTI 606160, Program CEEX CNMP - INFOSOC
32. Contract 115/2006, MATERIALE INTELIGENTE TIP CHIRAL-FAGURE PENTRU APLICATII MULTISECTORIALE (SI EXTINDEREA APLICATIILOR PROPUSE INITIAL PENTRU DOMENIUL PROTECTIEI LA RADIATII ELECTROMAGNETICE - PRIN

MATERIALE SI TEHNOLOGII AVANSATE PENTRU CONSTRUCTII SPECIALE), perioada 09.2006-09.2008, Valoare UTI 659383.00, CORINT / CNMP

33. Contract 79/2006, BIOCOMPOZITE OBTINUTE PRIN RECICLAREA DESEURILOR DE PET SI UTILIZAREA DE DERIVAȚI LIGNO-CELULOZICI, 09.2006-09.2008, 720000.00, CEEX M1/ MATNANTECH
34. Contract 173/2006, DEZVOLTATEA CAPACITATII DE INTEGRARE A ROMANIEI IN CADRUL PROGRAMELOR, PLATFORMELOR SI RETELELOR EUROPENE IN DOMENIUL METODELOR COMPARATIVE NEINVAZIVE SI NEDISTRUCTIVE DE ANALIZA A CALITATII SI SIGURANTEI ALIMENTELOR, perioada 09.2006-09.2008, Valoare UTI 150000.00, CEEX M3 / CNMP
35. Contract 179/2006, DEZVOLTAREA CAPACITATII DE INTEGRARE A ROMANIEI IN CADRUL PROGRAMELOR, PLATFORMELOR SI RETELELOR EUROPENE IN DOMENIUL METODELOR COMPARATIVE NEINVAZIVE SI NEDISTRUCTIVE DE ANALIZA A CALITATII SI SECURITATII ALIMENTELOR, perioada 09.2006-09.2008, Valoare UTI 130000.00, CEEX M3 / CNMP
36. Contract 550/2005, PLATFORME VIRTUALE SI DISTRIBUITE PENTRU DESIGN-UL, MONITORIZAREA PERFORMANTELOR SI DIAGNOZA SISTEMELOR ELECTROMECHANICE, perioada 04.2005-10.2007, Valoare UTI 120000.00, Grant A /CNCSIS
37. Contract 489/2004, METODE AVANSATE DE PROIECTARE SI TESTARE A SISTEMELOR DE IZOLATIE DESTINATE FUNCTIONARII IN CONDITII EXTREME SI TOLERANTE LA DEFECTARE, 04.2004-10.2006, Valoare UTI 150000.00, Grant A /CNCSIS
38. PNIII - ERANET-EURONANOMED nr. 193 / 2020, Membrane nanoporoase pentru pseudolivrarea intratecala a medicamentelor (INTREPIDUS). Valoarea totală a contractului TUIasi: 535.700,00. Valoarea contractului pe 2021: 185.060,00 lei. Membri ai echipei: 9. $(20 \times 185060 / 10000 / 9) = 41.12$

L. Premii, distincții

1. Premiarea rezultatelor cercetării - Articole, Competitia 2021 Subprogram 1.1 - Resurse Umane -The Influence of the Ceramic Nanoparticles on the Thermoplastic Polymers Matrix: Their Structural, Optical, and Conductive Properties
2. PN-IV-P2-2.3- PRECISI-2023- 68866 Mesitylene Tribenzoic Acid as a Linker for Novel Zn/Cd Metal-Organic Frameworks
3. PN-IV-P2-2.3- PRECISI-2023- 82683 Correlated studies of photoluminescence, vibrational spectroscopy and mass spectrometry concerning the pantoprazole sodium photodegradation - Scientific Reports
4. Awards for the best awareness level in FP7 grant schemes and current projects in software services” 09.2011

M. Alte realizări semnificative

Data
10.03.2026

Semnătura

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Numele și prenumele: **Ursache Silviu-Ionuț**

A. Teza de doctorat.

1. „Cercetări privind măsurarea intensității câmpului continuu și de joasă frecvență în vederea estimării nivelului de poluare electromagnetică”, conducător științific prof. univ. dr. ing. Mihai Crețu, 2011.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

1. Andrei Marinescu (Editor), *Electromagnetic Compatibility / Electromagnetic Field. Research and Development in Romania* [în Cap. 3, *Works and Walks in ESD, developed at the Faculty of Electrical Engineering* – în colectiv, Editura Agir, București, 2014.
2. A. Salceanu, E. Lunca, M. Pauleț, O. Neacsu, S. Ursache, *Compatibilitate electromagnetică. Aplicații*. ISBN 978-606-13-2812-3, Editura PIM, 2015, 200 pagini.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. **S. Ursache, Seminar Matematică, 70 pagini**, http://www.demm.ee.tuiasi.ro/silviu_ursache/
2. **Modelarea și simularea aplicațiilor de camp electromagnetic, Suport de curs, 80 pagini**, http://www.demm.ee.tuiasi.ro/silviu_ursache/
3. **Modelarea și simularea aplicațiilor de camp electromagnetic, Lucrări practice, 25 pagini**, http://www.demm.ee.tuiasi.ro/silviu_ursache/

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. E. Lunca, S. **Ursache**, A. Salceanu, Computation and analysis of the extremely low frequency electric and magnetic fields generated by two designs of 400 kV overhead transmission lines, Measurement, Journal of the International Measurement Confederation **FI-2.218**, Elsevier, Vol. 124, pp. 197-204, 2018.
2. **S. Ursache**, E. Lunca, A. Salceanu, I. Pavel, Analysis of the influence of the current drawn by the appliance on the close magnetic field, ACTA IMEKO, Vol 7, No. 4, 2018, http://dx.doi.org/10.21014/acta_imeko.v7i4.598
3. E. Lunca, S. **Ursache**, Andrei Salceanu, Assessment of RF Exposure Levels Generated by WiMAX Base Stations, Environmental Engineering and Management Journal (2016), **FI - 1,334**. December 2016, Vol.15, No. 12, 2753-2759. <http://omicron.ch.tuiasi.ro/EEMJ/>
4. **S. Ursache**, E. Lunca, A. Salceanu, I. Pavel, Analysis upon the influence of the current drawn by the appliance on the close magnetic field, ACTA IMEKO - e-Journal of the International Measurement Confederation, in press, 2018.
5. **SILVIU URSACHE**, ANDREI SĂLCEANU And OANA NEACȘU, MEASURING THE ELECTRIC AND MAGNETIC FIELDS ASSOCIATED WITH THE ELECTROSTATIC DISCHARGES, BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Tomul LXI (LXV), Fasc. 4, 2015, Index Copernicus, getCITED, Ulrich's.
6. Iuliana-Silvia GEORGESCU, **Silviu-Ionuț URSACHE**, Elena-Raluca BACIU, Daniel HRIȚCU, Andrei Victor SANDU and Constantin BACIU, The Influence of Spraying Distance on the Chemical Composition of Arc Sprayed Layers, Applied Mechanics and Materials Vols. 754-755, pp 865-868, 2015, indexata în Index Copernicus Journals Master List, Google Scholar, Chemical Abstracts, Cambridge Scientific Abstracts, Inspec, etc.
7. E. Lunca, A. Salceanu, **S. Ursache**, Automated Measurement and Monitoring of the Electromagnetic Fields from GSM Systems, Journal of Clean Energy Technologies, Vol. 1, No. 3, pp. 174-177, 2013 (INSPEC, Electronic Journals Library, Ulrich's Periodicals Directory, ProQuest etc.).
8. E. Lunca, **S. Ursache**, A. Salceanu, LabVIEW Interactive Simulations for Electromagnetic Compatibility, International Journal of Online Engineering (iJOE), Vol. 8, No. 2, pp. 11-14, 2012 (INSPEC, SCOPUS, DBLP, DOAJ, Ulrich, EBSCO etc.).
9. E. Lunca, S. Ursache, A. Salceanu, Study of the Power-Frequency Magnetic Fields in Residences and Schools, Buletinul AGIR, No. 3, pp. 689-693, 2012 (Index Copernicus, Academic Keys, getCITED).
10. E. Lunca, **S. Ursache**, Oana Neacsu, Graphical Programming Tools for Electrical Engineering Higher Education, International Journal of Online Engineering (iJOE), Vol. 7, No. 1, pp. 19-24, 2011 (INSPEC, SCOPUS, DBLP, DOAJ, Ulrich, EBSCO etc.).
11. E. Lunca, A. Salceanu, **S. Ursache**, EMC Testing Education According to the ISO/IEC 17025 Quality System Requirements, Acta Electrotehnica, Vol. 50, No. 3, pp. 214-218, 2009 (REFERATIVNYI ZHURNAL, DOAJ).

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

1. E. Lunca, V. David, **S. Ursache**, M. Cretu, On the EMF Exposure Due to Video Display Units, 5th International Conference on Electrical and Power Engineering – EPE 2008, Iasi, Romania, lucrare publicată în Buletinul Institutului Politehnic Iasi, Tomul LIV (LVIII), Fasc. 3, pp. 405-410, 2008.
2. Neacșu O., Toma L., **Ursache, S.I.**, Rendering the measurements of the near fields associated with ESD experiments, Buletinul Institutului Politehnic din Iași, Tomul LIV (LIV), 2008, pp. 393-398.
3. Nicusor Manolica, Liliana Barga and S.I. Ursache, Comparative study concerning the methods for electrostatic separation of materials, 6TH INTERNATIONAL CONFERENCE ON ELECTRICAL AND POWER ENGINEERING, 28-30 October 2010, Iași, Romania, 326 – 329.

I. Lucrări științifice publicate în volumele conferințelor.

1. Marius Valerian Paulet, Alexandru Salceanu, **Silviu Ionut Ursache**, Dragos Florin Bordeianu, On the Cumulative Effect of Magnetic Fields in the Deviation Zones of Overhead High Voltage Power Lines, 11th International Conference and Exposition on Electrical and Power Engineering, 2020, 22-23 October 2020, DOI: [10.1109/EPE50722.2020.9305563](https://doi.org/10.1109/EPE50722.2020.9305563), <https://ieeexplore.ieee.org/document/9305563>
2. A. Salceanu, E. Lunca, B.D. Alistar, **S. Ursache**, Upon the Influence of Charge Image on the Electric Field Intensity, 2019 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Iasi, Chisinau, Romania, 9-11 Oct. 2019, pp.1.4 www.ieeexplore.ieee.org
3. **S. Ursache**, E. Lunca, S. Vornicu, DC Digital Gaussmeter Based on Linear Hall-Effect Sensor IC, 2019 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Iasi, Chisinau, Romania, 9-11 Oct. 2019, pp.1.4 www.ieeexplore.ieee.org
4. **V4. Salceanu, A ; Ursache, S** ; Asiminicesei, O.; Lazarescu, C., *Phasing Effect on the Electric Fields Generated by High Voltage Overhead Power Lines*, International Conference and Exposition on Electrical and Power Engineering, 2018, 759-764, ISBN:978-1-5386-5062-2, DOI: [10.1109/ICEPE.2018.8559881](https://doi.org/10.1109/ICEPE.2018.8559881)
5. **S. Ursache** , E. Lunca , A. Salceanu , I. Pavel, Study on the Relationship between Magnetic Fields Generated by Home Appliances and Associated Drawn Currents, 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements 2017-September, pp. 305-308, www.scopus.com
6. Eduard Lunca, **Silviu Ursache** , Alexandru Salceanu, Characterization of the electric and magnetic field exposure from a 400 kv overhead power transmission line in Romania, 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements 2017-September, pp. 239-243, www.scopus.com

7. Ionel Pavel, Valeriu David, **Silviu Ursache**, On a Survey of the Magnetic Field in a Commercial Area, 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements 2017-September, pp. 300-304, www.scopus.com.
8. Salceanu, A., Paulet, M., **Ursache, S.**, Poenaru, M.M., 2016, Evaluating the Cumulative Exposure to Low Frequency Electric Fields, Proceedings of the 9-th International Conference and Exposition on Electrical and Power Engineering (EPE 2016), 20-22 October, Iasi, Romania, 5 pages, ISBN: 978-1-5090-6129-7, 2016, bazele de date www.ieeexplore.ieee.org
9. **Ursache, S.**, Salceanu, Andrei, Neacsu, O., 2016, Indoor and Outdoor Measurements of the Low Frequency Magnetic Fields in an Urban Area, Proceedings of the International Conference and Exposition on Electrical and Power Engineering (EPE 2016), 20-22 October, Iasi, Romania, 4 pages, ISBN: 978-1-5090-6129-7, 2016, bazele de date www.ieeexplore.ieee.org
10. Lunca, E., Salceanu, **A.**, **Ursache, S.**, Anghel, M.A., 2016, Evaluation of EMF Exposure from Digital Terrestrial Television Transmitters, Proceedings of the 21st IMEKO TC4 International Symposium and 19th International Workshop on ADC Modelling and Testing, 7-9 September 2016, Budapest, Hungary, pp. 236-239, 2016, bazele de date www.scopus.com
11. E. Lunca, **S. Ursache**, A. Vasniuc, Temperature monitoring system based on multiple TMP75 digital sensors and the PC's parallel port, 9th International Symposium on Advanced Topics in Electrical Engineering – ATEE 2015, Bucharest, Romania, May 7-9, 2015, pp. 15-18 (IEEE Xplore, SCOPUS). DOI: 10.1109/ATEE.2015.7133668.
12. A. Salceanu, M. Paulet, **S. Ursache**, Fast Method for Determining Significant Electrical Parameters of ESD -Textiles, 9th International Symposium on Advanced Topics in Electrical Engineering – ATEE 2015, Bucharest, Romania, May 7-9, 2015, pp. 348-351, DOI: 10.1109/ATEE.2015.7133829, indexată IEEEExplore.
13. A. Salceanu, E. Lunca, C. Luca, **S. Ursache**, Monitoring the Electromagnetic Traffic in an Intensive Care Unit, 8th International Conference and Exposition on Electrical and Power Engineering – EPE 2014, Iasi, Romania, Oct. 16-18, 2014, pp. 811-814 (ISI - Web of Science, IEEE Xplore, SCOPUS), DOI: 10.1109/ICEPE.2014.6970023
14. **S. Ursache**, A. Salceanu, E. Lunca, An evaluation of the measurement uncertainty for the electrostatic discharge current parameters, 8th International Conference and Exposition on Electrical and Power Engineering – EPE 2014, Iasi, Romania, Oct. 16-18, 2014, pp. 462-465 (ISI - Web of Science, IEEE Xplore, SCOPUS), DOI: 10.1109/ICEPE.2014.6969950.
15. **S. Ursache**, M. Paulet, Andrei Salceanu, C. Luca, Study upon the disturbing potential of TETRA electromagnetic traffic, Electrical and Power Engineering (EPE), 2014 International Conference and Exposition on Electrical and Power Engineering, pp.433,436, 16-18 Oct. 2014, doi: 10.1109/ICEPE.2014.6969944, indexată IEEEExplore.
16. Oana Neacșu, Oana Beniugă, **Silviu Ursache**, Marius Paulet, Modelling and analysis the current pulse associated with electrostatic discharges, International Conference and Exposition on Electrical and Power Engineering, (EPE 2012), p. 585-589, 25, 27 Octombrie 2012, Iași, EPE Proceedings, ISBN: 978-1-4673-5001-3, indexată ISI Web of Knowledge, DOI: 10.1109/ICEPE.2012.6463871
17. Oana Beniugă, Răzvan Beniugă, Paul Bicleanu, Ana Nicuță, **Silviu Ursache**, Wind turbine crowbar reliability related on electric charge accumulation/discharge, , International Conference and Exposition on Electrical and Power Engineering,

- (EPE 2012), p. 900-903, 25, 27 Octombrie 2012, Iași, EPE Proceedings, ISBN: 978-1-4673-5001-3, DOI: 10.1109/ICEPE.2012.6463818
18. **S. Ursache**, E. Lunca, A. Salceanu, M. Cretu, Introducing Mathematica Software to Electrical Engineering Students: A Way to Improve the Computational Skills, 6th International Seminar on Quality Management in Higher Education – QMHE 2010, Tulcea, Romania, Jul. 08-09, 2010, pp. 697-700 (ISI - Web of Science), www.scopus.com
 19. E. Lunca, A. Salceanu, V. David, **S. Ursache**, EMC Education at Technical University of Iasi. From EMC Fundamentals to Measurements and Standards, 5th International Seminar on Quality Management in Higher Education – QMHE 2008, Tulcea, Romania, Jun. 12-14, 2008, pp. 341-344 (ISI - Web of Science), <http://apps.isiknowledge.com/>
 20. **Silviu Ursache**, Oana Neacșu, Andrei Sălceanu, Affordable attempt for determining the magnetic field associated with the electrostatic discharges, Proceedings of the 10th International Conference on Electromechanical and Power Systems, SIELMEN 2015, Chisinau, 8-9 October 2015.
 21. Andrei Salceanu, Valeriu David, Marius Paulet, **Silviu Ursache**, Approach on the Compliance of Magnetic Field Emissions with the TCO Guidelines, Proceedings of the 10th International Conference on Electromechanical and Power Systems, SIELMEN 2015, Chisinau, 8-9 October 2015, Prezentare orală SIEIMEN 2015, Metrology and Measurement Systems

J. Invenții.

K. Contracte de cercetare/granturi.

1. Dezvoltarea conceptului de cladire generator-converter de energie regenerabila, cu autonomie energetica ridicata si acumulare in infrastructura si sol – RENERGHOME, Colab. PN II Part.21-066, 2007, valoare 90000 lei, (medie grant CNCIS-UTI 2008-107.860), membru în echipa de cercetare.
2. Stagii de practică performante pentru studenții Universității Tehnice “Gheroghe Asachi” din Iași - PRACTIC POCU/626/6/13/130661, membru în cadrul echipei proiectului.
3. Inserția absolvenților, prin stagii de pregătire practică moderne și eficiente, din cadrul Universității Tehnice „Gheorghe Asachi” din Iași, pe piața muncii – PRACTEH”, POCU/626/6/13/131181, membru în cadrul echipei proiectului.

L. Premii, distincții.

M. Alte realizări semnificative.

Data: 30.06.2025

S.I.dr.ing. Ursache Silviu-Ionuț

Lista de lucrări în domeniul de studii universitare de licență „Inginerie Electrică”

Numele și prenumele: **Varvara Viorel**

A. Teza de doctorat.

1. „Influența regimului deformant asupra funcționării sistemelor electroenergetice”, 1999, Domeniul „Inginerie Energetică”, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: prof. dr. ing. Cartina Gheorghe.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS (sau CNCS).

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International Conference On Applied And Theoretical Electricity ICATE '2004, Craiova 2004, ISBN 973-8043-554-4, pp.12-15.

24. Georgescu Gh., **Varvara V.** Aspecte privind condițiile de coexistență a liniilor de energie electrică cu liniile de telecomunicații

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26. Georgescu Gh., **Varvara V.**, Bogdan Neagu, The Outline of the Energy Consumers from the Distribution Electric Systems

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27. **Varvara V.** The Computation of the Power Factor in Networks Running in Distorting and Nonsymmetrical States

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28. Istrate M., **Varvara V.**, Machidon D., Dragomir M., The Effect of The Automatic Reclosing on the Fault Location in the Transmission Lines, Proceedings of The 7th National Conference on Industrial Energetics – With International Participation, pp. 183-188, ISBN 978-606-527-050-3, Bacau 2009.

29. **Varvara V.**, Istrate M. About the Power Factor Compensation in Networks that Supply Non-Linear Receivers, The 6-th International Conference on Electrical and Power Engineering, EPE 2010, Iasi, 27-29 Oct. 2010, pp.221-223. ISBN 978-606-13-00-79-2.

30. **Varvara V.**, Istrate M., Some Aspects Regarding The Influence of the Non-Symmetrical Receivers Upon the Quality of the Electric Energy, The 6-th International Conference on Electrical and Power Engineering, EPE 2010, Iasi, 27-29 Oct. 2010, pp.224-226. ISBN 978-606-13-00-79-2.

31. Istrate M., **Varvara V.**, Dragomir M., The Influence of the Power Frequency on the Accuracy of the Synchrophasors Measurements, Acta Electrotehnica, Proceedings of the 3rd International Conference on Modern Power Systems MPS 2010, pp 196-199, Vol. 51, No. 5, 2010, ISSN 1841-3323 (De categ. B+ CNC SIS, cod 576 – <http://www.cncsis.ro/articole/1901/Arhiva-2005-2008.html>, indexata în doua BDI – Rusia VINITI <http://catalog.viniti.ru/> si Suedia DOAJ <http://www.doaj.org>), 2010

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33. Gavrilăș, M., **Varvara, V.**, Sfinteș, C., Aspecte particulare privind tratarea zilelor de repaus și sărbători legale pentru prognoza pe termen scurt a consumului de energie electrică, Conferința Internațională de Energetică CNE-M- 2000, Chișinău, Republica Moldova, ISBN 9975-63-024-3, 249-254.

34. **Varvara, V.** Elaborarea metodicii optime de dimensionare a filtrelor pentru reducerea conținutului în armonici a curenților care circulă în rețelele electrice funcționând în regim nesinusoidal Conferința Internațională de Energetică CNE-M- 2000, Chișinău, Republica Moldova, ISBN 9975-63-024-3, 109-114.

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- Conference on Fundamentals of Electrotechnics and Circuit Theory, IC- XXIV SPETO 2001, Gliwice, Poland, pp. 309-312.
36. **Varvara, V.**, State Analyse and Aspects Regarding Power Quality for Three Phase Networks Running Under Unbalanced Steady State, International Conference on Power Electronics, Intelligent Motion and Power Quality PCIM 2001, Nuremberg, Germany, pp 243-248.
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 38. **Varvara, V.** Influența conectării bateriilor de condensatoare asupra circulației curenților armonici în rețelele electrice ce alimentează un receptor neliniar concentrat, A III-a Conferință Internațională de Sisteme Electromecanice și Energetice SIELMEN 2001, Chișinău, Rep. Moldova, ISBN 9975-9638-7-0, 67-70.
 39. **Varvara, V.** Influența sarcinilor liniare conectate în rețea asupra circulației curenților armonici produși de un element deformant concentrat, A III-a Conferință Internațională de Sisteme Electromecanice și Energetice SIELMEN 2001, Chișinău, Rep. Moldova, ISBN 9975-9638-7-0, 75-78.
 40. Georgescu Gh. **Varvara, V.**, Bază de date și produse software destinate optimizării structurii și regimurilor rețelelor de distribuție, folosind metode clasice sau algoritmi genetici și strategii de evoluție, A III-a Conferință Internațională de Sisteme Electromecanice și Energetice SIELMEN 2001, Chișinău, Rep. Moldova, ISBN 9975-9638-7-0, 63-66.
 41. **Varvara, V.**, Cartina, G., The Harmonic Current Flow and the Resonances which Can Appear in an Electrical Network Running in a Non-Sinusoidal Steady State International Conference on Fundamentals of Electrotechnics and Circuit Theory, XXV IC-SPETO 2002, Gliwice, Poland, pp.227-230.
 42. **Varvara, V.** Power Quality in Networks Running Under Non-Symmetrical Conditions, International Conference on Fundamentals of Electrotechnics and Circuit Theory, XXV IC-SPETO 2002, Gliwice, Poland, pp.223-226.
 43. **Varvara, V.** Analysis of the Non-sinusoidal Steady State in an Electric Network with the Help of a Specialized Software Package International Conference on Power Electronics, Intelligent Motion and Power Quality PCIM 2003, Nuremberg, Germany, pp 319-323.
 44. **Varvara, V.**, The Non-symmetrical State in Electric Networks, International Conference on Fundamentals of Electrotechnics and Circuit Theory, XXVI IC-SPETO 2003, Gliwice, Poland, pp.201-204.
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 46. **Varvara, V.**, The Reactive Power Flow in Networks Running in Non-symmetrical Conditions, International Conference on electrical Power Quality and Utilization, EPQU 2003, Cracow, Poland (acceptată pentru publicare).
 47. Georgescu Gh., **Varvara V.**, Curteanu C., Software package for the assessment of self technological consumptions in public distribution Networks, 4th International Conference on Electromechanical and Power Systems SIELMEN 2003, Chișinău, Rep. Moldova, pp. 131-134.
 48. **Varvara V.**, Georgescu Gh., The non-symmetry Coefficients Appreciation in Electrical Network, 4th International Conference on Electromechanical and Power Systems SIELMEN 2003, Chișinău, Rep. Moldova, pp. 135-138.

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50. **Varvara V.**, Georgescu Gh., Analysis of the Distribution Networks that Operate in Non-Symmetrical Conditions with The Help of a Specialised Software, 5th International Conference on Electromechanical and Power Systems SIELMEN 2005, Chişinău, Rep. Moldova, pp. 438-441.
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52. **Varvara V.**, About the Quality of the Electric Energy in Networks that Supply Non-Symmetrical Receivers, XIV-th International Symposium on Electrical Apparatus and Technologies, SIELA 2005, Plovdiv, Bulgaria 2005, pp.213-218.
53. **Varvara V.**, The Influence upon The Quality of the Electric Energy of the Power Factor Compensation Method Used In Networks that Supply Non-Linear Receivers , XIV-th International Symposium on Electrical Apparatus and Technologies, SIELA 2005, Plovdiv, Bulgaria 2005, pp.219-224.
54. **Varvara V.**, Harmonics in Public Distribution Networks, International Conference Energy Of Moldova – 2005, September 21-24, 2005 - Chisinau, Rep.Moldova,
55. **Varvara V.**, Georgescu Gh., .About the Efficiency of the Reactive Power Compensation in Networks that Operate in Nonsymmetrical States,, 6th International Conference on Electromechanical and Power Systems SIELMEN 2007, Chişinău, Rep. Moldova,
56. Georgescu Gh., **Varvara V.** Aspects Regardingt the Quality of the Electric Energy in Public Distribution Systems, 6th International Conference on Electromechanical and Power Systems SIELMEN 2007, Chişinău, Rep. Moldova, pp.
57. **Varvara V.**, Energetic Aspects in Electric Distribution Networks that Supply Balanced and Unbalanced Receivers
International Conference on Fundamentals of Electrotechnics and Circuit Theory, XXX IC-SPETO 2007, Gliwice, Poland, pp. 97-100
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59. **Varvara V.**, Istrate M., Active Powers on Harmonics and on Symmetrical Components in Electric Networks , International Conference on Fundamentals of Electrotechnics and Circuit Theory, XXXII IC-SPETO 2009, Gliwice, Poland, pp. 93-95
60. **Varvara V.**, Istrate M., Aspects Regarding Power Quality In Networks Operating Under Non-Symmetrical Conditions , International Conference on Fundamentals of Electrotechnics and Circuit Theory, XXXIII IC-SPETO 2010, Gliwice, Poland, pp. 95-98.

J. Invenții.

K. Contracte de cercetare/granturi.

1. D. Bărbulescu, I. Popescu, **V. Varvara**, I. Zaharia, C. Petrescu
Cercetari privind măsurarea energiei active armonice la consumatori funcționând în regim deformant alimentați de I.R.E. Iași
Contract cercetare 4557/1987 - beneficiar I.R.E. Iași

2. D. Bărbulescu, I. Popescu, **V. Varvara**, I. Zaharia, C. Petrescu
Influența regimului deformant introdus de tracțiunea electrică asupra calității energiei electrice furnizate de I.R.E. Iași
Contract cercetare 5944/1988 - beneficiar I.R.E. Iași.
3. I. Popescu, **V. Varvara**, I. Zaharia, C. Petrescu
Suprasolicitările bateriilor de condensatoare din stațiile I.R.E. Iași
Contract cercetare 1861/1989 - beneficiar I.R.E. Iași.
4. M. Gavrilăș, Al. Poeată, **V. Varvara**, Gh. Georgescu, Gh. Cârțină, Cl. Bonciu
Utilizarea rețelelor neuronale în supravegherea și conducerea rețelelor electrice
Contract cercetare 2443/1994 -beneficiar FRE Iași.
5. M. Gavrilăș, Gh. Georgescu, **V. Varvara**, Gh. Cârțină, Gh. Savitescu, E. Bârlădeanu
Utilizarea rețelelor neuronale în supravegherea și conducerea rețelelor electrice
Contract cercetare 5857/1995 -beneficiar FRE Iași.
6. M. Gavrilăș, Gh. Georgescu, **V. Varvara**, Al. Poeată, Gh. Cârțină, Gh. Savitescu
Cercetări privind optimizarea multicriterială a structurii și regimurilor de funcționare ale rețelelor electrice de distribuție în vederea creșterii calității energiei electrice și reducerii consumurilor proprii tehnologice –
Contract cercetare 6685/1996 - beneficiar FRE Iași.
7. Gh. Georgescu, **V. Varvara**, M. Gavrilăș, D. Rădășanu, E. Bârlădeanu, Gh. Savitescu
Studiu pentru reconfigurarea rețelei de distribuție de medie și joasă tensiune ținând seama de încărcarea optimă a rețelei și de cadererile de tensiune în vederea scăderii consumului propriu tehnologic
Contract 3624-1997 - beneficiar FRE Focșani.
8. M. Gavrilăș, Gh. Georgescu, **V. Varvara**, D. Rădășanu, E. Bârlădeanu, Gh. Savitescu
Utilizarea rețelelor neuronale în previziunea sarcinii pe termen scurt și mediu –
Contract cercetare 3625/1997, beneficiar FRE Suceava.
9. M. Gavrilăș, Gh. Georgescu, **V. Varvara**, D. Rădășanu, E. Bârlădeanu, Gh. Savitescu
Previziunea pe termen scurt a puterii absorbite și a consumului de energie folosind elemente ale inteligenței artificiale
Contract cercetare 6760/1998 - beneficiar FRE Vaslui
10. M. Gavrilăș, **V. Varvara**, Gh. Georgescu
Cercetări privind implementarea unor modele ale inteligenței artificiale pentru prognoza pe termen scurt și mediu a consumului de energie electrică-
Proiect anual de cercetare cu CNCSIS, tip A, 1999.
11. Gh. Georgescu, **V. Varvara**, D. Rădășanu
Estimarea stării rețelelor de distribuție și măsuri pentru creșterea eficienței exploatarii lor.
Contract cercetare 558P/2000 - beneficiar FRE Iași.
12. Gh. Georgescu, **V. Varvara**
Utilizarea calculului evolutiv (algoritmi genetici) pentru optimizarea nivelelor de tensiune și reducerea CPT în rețelele de distribuție ale SDEE Galați.
Contract cercetare 556P/2000 - beneficiar FRE Galați.
13. M. Gavrilăș, **V. Varvara**, Gh. Georgescu
Studiu privind regimul de scurtcircuit în rețelele de transport exploatată de Sucursala de Transport Constanța
Contract cercetare 1739P-2000 - beneficiar ST Constanța.
14. **V. Varvara**, Gh. Georgescu, C. Curteanu

Pachet de programe pentru optimizarea structurii și regimului de funcționare ale rețelelor de joasă și Cercetări privind îmbunătățirea calității energiei electrice prin reducerea nivelului poluării armonice în rețelele de distribuție de medie și joasă tensiune exploatate de Sucursala Hidrocentrale Buzău

Contract cercetare 2003 - beneficiar Hidroelectrica SA., Sucursala Hidrocentrale Buzău

15. Marcel Istrate, **V. Varvara**, Gh. Georgescu, ANALIZA ASISTATĂ DE CALCULATOR A INFLUENȚEI DEFECTELOR DIN REȚEAUA DE 110 kV ASUPRA FUNCȚIONĂRII REȚELEI DE TRANSPORT A ST BACĂU

contract nr. 2220P din 02.06.2006, obținut prin licitație deschisă publicată în Monitorul Oficial al României, partea a VI-a, responsabil tema -

suma 30000 RON, beneficiar - CN Transelectrica SA, ST Bacău.

16. SISTEM INTEGRAT DE INSPECȚIE VIDEO-INTELIGENTĂ; A MATERIALELOR TEXTILE DEZVOLTAT PRIN METODE VIRTUALE DE PROCESARE A IMAGINII

Program CEEEX - M1, Contract - INFOSOC nr. 57/2006

valoare totală;= 1.040.000 RON / valoare coordonator UTI= 499.000 RON

director: conf.dr.ing. Marinel Temneanu

membru în colectivul de cercetare

17. SISTEM INTELIGENT DE IRIGARE DE PRECIZIE IMPLEMENTABIL PE STRUCTURILE AUTOMATE CU DEPLASARE CIRCULARĂ SAU LINIARĂ. Program CEEEX - M1, Contract - AGRAL nr. 51/2006. valoare totală= 1.010.000 RON / valoare coordonator UTI = 467.300 RON. director: as.dr.ing. Codrin Donciu; membru în colectivul de cercetare

18. Sistem video inteligent de comandă a semaforizării intersecțiilor destinat diminuării congestiilor rutiere și reducerii poluării fizico-chimice și fonice a mediului. PN2 PARTENRIATE, CNMP; contract nr. 71-100/2007, perioada 2007-2010; valoare 1520000 RON

membri M.Temneanu, C.Donciu, R.Ciobanu, M.Cretu, C.Fosalau, M.Penciu, R.Butnaru, C. Temneanu, I.Zaharia, **V.Varvara**, O.Costea, A.Samoila, C.Dosoftei; director M. Temneanu

19. PN II 30/2012 (membru; director prof.dr.ing. Temneanu M.), valoare TUIASI=1.113.000 lei

20. CROSSTEXNET 7-071/2012 (membru; director șef lucrări dr.ing. Donciu Codrin), valoare TUIASI 405.000 lei

21. PN2 – Parteneriate, contract 30/2012, Contor inteligent bazat pe evaluarea semnăturii energetice: (membru; dir.: prof.dr.ing. Temneanu M.)

22. PN2 – Parteneriate, contract 251/2014, Mini-patern-urile, soluția coordonării video a procesului de confecționare a produselor textile: (membru; dir.: prof.dr.ing. Temneanu M.)

13. Premii, distincții.

14. Alte realizări semnificative.

Listă de lucrări în domeniul de studii universitare de licență *Inginerie electrică*

Vornicu Silviu-Constantin

A. Teza de doctorat

1. *Cercetări teoretice și experimentale privind caracterizarea expunerii umane la câmpuri electromagnetice de joasă frecvență*, 2024, Domeniul Inginerie electrică, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: Prof. dr. ing. Alexandru Sălceanu

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

1. Eduard Luncă, Bogdan Constantin Neagu, **Silviu Vornicu**, *Finite Element Analysis of Electromagnetic Fields Emitted by Overhead High-Voltage Power Lines*, în volumul *Numerical Methods for Energy Applications* (editori: Naser Mahdavi Tabatabaei, Nicu Bizon), Editura Springer Cham, 2021, 27 pag., ISBN 978-3-030-62190-2.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCS/CNCSIS

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. E. Lunca, **S. Vornicu**, A. Salceanu, *Numerical and Analytical Analysis of the Low-Frequency Magnetic Fields Generated by Three-Phase Underground Power Cables with Solid Bonding*, Applied Sciences, Vol. 13, No. 10:6328, pp. 1-18, 2023, **FI 2023 – 2,5**.
2. A. Vilcu, E. Lunca, **S. Vornicu**, I.-V. Herghiligiu, C. Toporascu, *Computerized Device for Monitoring ECG and PPG Signals – Design and Redesign Based on Value Engineering Method*, Bulletin of the Polytechnic Institute of Iași. Electrical Engineering, Power Engineering, Electronics, Vol. 68 (72), No. 3, pp. 57-74, 2023 (EBSCO, Ulrich's, Index Copernicus, Sciendo).
3. E. Lunca, **S. Vornicu**, A. Salceanu, O. Bejenaru, *2D Finite Element Model for computing the electric field strength-rms generated by overhead power lines*, Journal of Physics: Conference Series, Vol. 1065, pp. 1-4, 2018 (SCOPUS, IOP Science).

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

1. A. Sălceanu, M. Temneanu, B. Giurcanu, C. Lăzărescu, **S. Vornicu** and S. Ursache, "Considerations on Experimental Determinations of the Specific Absorption Rate Data for a Multi-Band Mobile Phone," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 651-65
2. M-C. Moruz, **S-C. Vornicu**, P-C. Oprea and A. Sălceanu, "Evaluation of Disturbing Electromagnetic Emissions Produced by an Electrosurgery Unit," 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 669-673
3. E. Lunca, **S. Vornicu**, A. Salceanu, *3-Axis Virtual Gaussmeter for Measurement and Advanced Characterization of the Magnetic Fields from Overhead Power Lines*, 2024 IEEE International Conference and Exposition on Electric and Power Engineering (EPEi), Iasi, Romania, October 17-19, 2024, pp. 551-555 (IEEE Xplore, SCOPUS).
4. M. Branzilă, S.A. Cîslariu, **S. Vornicu**, C. Brinzilă, *Sensory System Based on Intelligent Sensors for Implementation of a Modern Weather Station*, 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Romania, 2023, pp. 1-4 (IEEE Xplore, SCOPUS).
5. E. Lunca, **S. Vornicu**, A. Salceanu, *Numerical Modelling of the Magnetic Fields Generated by Underground Power Cables with Two-point Bonded Shields*, 25th IMEKO TC4 International Symposium and 23rd International Workshop on ADC Modelling and Testing (IMEKO TC-4 2022), Brescia, Italia, September 12-14, 2022, pp. 221-226 (SCOPUS).
6. E. Lunca, **S. Vornicu**, I. Pavel, M. Andrusca, *Measurement and Numerical Simulation of the Low-Frequency Electric Field Generated by an Overhead Power Line*, 12th International Conference and Exposition on Electrical and Power Engineering – EPE 2022, Iasi, Romania, October 20-22, 2022, pp. 719-722 (IEEE Xplore, SCOPUS).
7. S. Vornicu, E. Lunca, B.C. Neagu, F.C. Baiceanu, *Assessment of Extremely Low-Frequency Magnetic Field from Multiple High-Voltage Overhead Power Lines in Parallel Configuration*, 12th International Conference and Exposition on Electrical and Power Engineering – EPE 2022, Iasi, Romania, October 20-22, 2022, pp. 723-726 (IEEE Xplore, SCOPUS).
8. A. Salceanu, **S. Vornicu**, D.F. Bordeianu, C.D. Neagu, 2020, *Study Upon the Influence of Bundle Configurations on Corona Losses*, 11th International Conference and Exposition on Electrical and Power Engineering – EPE 2020, Iasi, Romania, October 22-23, 2020, pp. 1-6, (IEEE Xplore, SCOPUS).
9. A. Salceanu, **S. Vornicu**, E. Lunca, M. Istrate, *Influence of High Voltage Bundle Configurations on Human Exposure*, 11th International Conference and Exposition on Electrical and Power Engineering – EPE 2020, Iasi, Romania, October 22-23, 2020, pp. 1-6 (IEEE Xplore, SCOPUS).
10. E. Lunca, **S. Vornicu**, C. Damian, *PC-Based Temperature and Humidity Recorder with USB Connectivity*, 2019 International Conference on Electromechanical and Energy Systems (SIELMEN 2019), Craiova, Romania, October 9-11, 2019, pp. 1-4 (Web of Science, SCOPUS).
11. **S. Vornicu**, E. Lunca, A. Salceanu, *ANSYS Maxwell Finite Element Model for 2D Computation of the Magnetic Field Generated by Overhead High-Voltage Power Lines*, 2019 International Conference on Electromechanical and Energy Systems (SIELMEN 2019), Craiova, Romania, October 9-11, 2019, pp. 1-4 (Web of Science, SCOPUS).
12. S. Ursache, E. Lunca, **S. Vornicu**, *DC Digital Gaussmeter Based on Linear Hall-Effect Sensor IC*, 2019 International Conference on Electromechanical and Energy Systems (SIELMEN 2019), Craiova, Romania, October 9-11, 2019, pp. 1-4 (Web of Science, SCOPUS).
13. **S. Vornicu**, E. Lunca, A. Salceanu, *Computation of the Low Frequency Magnetic Fields Generated by a 12/20 kV Underground Power Line*, 10th International Conference and Exposition on Electrical and Power Engineering – EPE 2018, Iasi, Romania, October 18-19, 2018, pp. 630-633 (Web of Science).

14. O. Bejenaru, C. Lazarescu, **S. Vornicu** and V. David, *Specific Absorption Rate Evaluation in Case of Exposure of the Human Body to Radiofrequency Electromagnetic Field Generated by Mobile Communications*, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), 2018, pp. 1004-1009 (Web of Science).

J. Invenții

K. Contracte de cercetare

L. Premii, distincții

M. Alte realizări semnificative

Data, 02.03.2026

As. dr. ing. Vornicu Silviu-Constantin

Listă de lucrări în domeniul de studii universitare de licență Inginerie electrică

Numele și prenumele: Zet Cristian

A. Teza de doctorat.

1. Îmbunătățirea performanțelor metrologice a microsystemelor de măsurare a mărimilor de proces industrial

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Sensors in the age of the IOT - technologies and applications - C8 -Wireless sensor network for landslide early warning and monitoring, The IET International Series on Sensors, 2019, C. Fosalau and C.Zet - 33p - $50 \times (33/2) / 100 = 8.25p$

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

1. Arhitectura calculatoarelor – C, Zet, Editura PIM, 2013, ISBN 9786061314829, 182 p
2. Circuite numerice, C. Zet, Ed. Venus, , 2008, ISBN 978-973-756-087-2, 173 p
3. Circuite numerice – îndrumar de laborator, Ed. Venus, C. Zet, 2008, ISBN 978-973-756-085-8, 84p
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J. Invenţii.

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K. Contracte de cercetare.

1. Monitorizarea calității mediului folosind sisteme automate multisenzor și tehnici avansate de prelucrare a informației, Grant CNCISIS tip C cu finanțare de la BM nr. 39628/09.98, Cercetător specialist 1999 – 2002
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7. Nanofire multistrat cu structura de tip valva de spin. Proprietati de magnetorezistenta gigant., Proiect CEEX Matnantech 21/2005, Responsabil științific, 2005-2007
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10. Sistem integrat de inspectie video-inteligenta a materialelor textile dezvoltat prin metode virtuale de procesare a imaginii, Proiect CEEX – MODUL 1 – Contract CEEX -INFOSOC nr. 57/2006 , Cercetător specialist, 2006-2008
11. Microtraductoare cu elemente sensibile din materiale magnetice amorfe, Proiect PNCDI – MATNANTECH, Contract nr. 258/2004, Membru în echipa de cercetare, 2004-2006
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14. Microsenzori magnetici implantabili pentru aplicații medicale (MEDISENS), Proiect PN2 Parteneriate, nr. 12110/01.10.2008
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16. Sistem pe baza de microfire magnetice pentru neutralizarea activării de la distanță a explozivilor prin intermediul telefoanelor mobile (NADEX), Proiect PN2 Parteneriate, nr. 82096/01.10.2008
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22. Proiect PN III tip Transfer la operatorul economic PTE nr. 39PTE/2016 Dezvoltarea portofoliului de produse inovative al SC.CAOMSA prin transferul tehnologic al unei marci tensometrice cu sensibilitate ridicată – Membru echipa cercetare
23. Proiect Tehnologic Inovativ(PTI) - “Instalație automatizată pentru verificarea traductoarelor de debit și a contoarelor de energie termică compacte și combinate” , Cod SMIS: 122085, Contractul de finantare: 351 / 08.09.2021. Valoarea totală contract 08.09.2021 - 31.12.2023 este de 3.733.825,01 lei. Director proiect S.l dr. ing, Gabriel-Constantin Sârbu. membru in echipa de implementare, 10 membri, suma pt anul 2022 - 1866912.5 lei - $15 \times 186.69 / 10 = 80p$

L. Premii, distincții.

1. Premiul de excelenta 2013 pentru Grupul care a contribuit la atragerea celor mai multe fonduri pentru cercetare acordat de Universitatea Tehnica Gheorghe Asachi din Iasi, Grupul format din: Prof. dr. Ing. Marinel Temneanu, Șef Lucrări Dr. Ing. Codrin Donciu, Prof. Dr. Ing. Cristian Foșalău, Conf. Dr. Ing. Cristian Zet
2. Best technical Paper award, 8th Conference ICST 2014
3. Best Paper Award, 1st Conference ISSI 2018
4. Medalie aur Euroinvent 2017, Iași - Highly sensitive strain gauge
5. Medalie argint Euroinvent 2017, Iași - Pore water pressure sensor
6. Medalie aur Inventica 2017, iunie 2017, Iași - Pore water pressure sensor
7. Medalie aur Inventica 2017, iunie 2017, Iași - Highly sensitive strain gauge
8. Medalie aur Salonul Inovării și Cercetării, Galati, oct. 2017 - Highly sensitive strain gauge
9. Medalie bronz INFOINVENT Chisinau, nov. 2017 Marca tensometrica de sensibilitate ridicata

M. Alte realizări semnificative.

1. Teză de abilitare: Contributii la dezvoltarea tehnicilor analogice si digitale pentru tehnologia senzorilor

Data, 1.03.2026

Semnătura
Prof.Dr.Ing. Cristian Zet