Anexa B.9.6 - Liste de lucrări cadre didactice

UNIVERSITATEA TEHNICĂ “GHEORGHE ASACHI” DIN IAŞI
FACULTATEA: INGINERIE ELECTRICĂ, ENERGETICĂ ŞI INFORMATICĂ APLICATĂ
Domeniul de licenţă: INGINERIE ELECTRICĂ
Programul de studii: **ELECTRONICĂ DE PUTERE ŞI ACŢIONĂRI ELECTRICE**

OPIS cadre didactice

Nr.crt.	Nume cadru didactic	Pag.
1	**Albu Mihai**	3
2	**Antonescu Ion**	12
3	**Arădoaei Sebastian-Teodor**	27
4	**Arădoaei Mihaela**	30
5	**Asiminicesei Oana Maria**	38
6	**Baciu Alina Georgiana**	42
7	**Baciu Ioana**	45
8	**Balan George**	48
9	**Balan Iulian**	50
10	**Benchea Marcelin**	51
11	**Brezuleanu Mădalina-Maria**	58
12	**Brînzilă Marius-Ciprian**	62
13	**Burlică Monica Dana**	68
14	**Burlică Radu**	70
15	**Butnariu Anca Mihaela**	75
16	**Butnicu Dan**	78
17	**Chiriac Gabriel**	83
18	**Ciobanu Romeo Cristian**	90
19	**Damian Cătalin**	112
20	**Doboș Ioan-Marian**	118
21	**Donciu Codrin**	119
22	**Gabor Georgel**	127

23	**Grigoraș Dimitri**	130
24	**Haba Cristian-Gyozo**	131
25	**Horga Vasile**	146
26	**Irimia Danuț-Constantin**	158
27	**Livadaru Leonard Mihail**	165
28	**Lucache Dumitru-Dorin**	173
29	**Luncă Costel Eduard**	187
30	**Mitocaru Alexandru**	198
31	**Munteanu Adrian**	200
32	**Nemeș Ciprian-Mircea**	209
33	**Nițucă Costica**	227
34	**Nechifor Cristina-Delia**	234
35	**Olariu Marius Andrei**	239
36	**Păuleț Marius-Valerian**	247
37	**Pingescu Bogdan-Andrei**	251
38	**Poboroniuc Marian Silviu**	253
39	**Prisacaru Gheorghe**	274
40	**Sălcianu Monica**	286
41	**Serea Elena**	288
42	**Sfartz Corneliu-Eugen**	292
43	**Sticea Daniel-Adrian**	294
44	**Schreiner Cristina-Mihaela**	297
45	**Stirbu Ioan**	307
46	**Tarniceriu Carmen Oana**	309
47	**Temneanu Mitică**	312
48	**Ursache Silviu Ionut**	317
49	**Varvara Viorel**	321
50	**Vornicu Silviu Constantin**	331

Lista de lucrări în domeniul de studii universitare de licenţă: Inginerie electrică
*

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

A. Teza de doctorat.- *Titlul şi anul susţinerii, specializarea, locul susţinerii*

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

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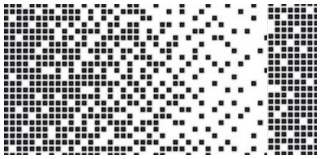

S.l.dr.ing. ANTONESCU ION

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F. ***Lucrări prezentate la conferinte 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 Ieşene, Ediţia 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 Ieşene, Ediţia 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 Ieşene, Ediţia 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 Cooperationbin 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 Electronică Telecomunicații 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 Electronică Telecomunicații și Tehnologia Informației, Universitatea Tehnică „Gheorghe Asachi” din Iași, https://www.inventica-sir.ro/doc/comisii_2021/sesiunea_4_2021.htm
9. Iulian Cucoș, **Ion Antonescu**, Ionel-Ciprian Alecu „Managementul energetic al construcţiilor montane in contextul economiei circulare”, la a 14-a Conferinţă științifică consacrată cunoașterii specificității economico-sociale și dezvoltării sustenabile a comunităților montane din România, în contextul noilor orientări ale CE prin Acordul Verde European-Orizont 2040-2050, „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 materialele 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 eFicientă 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. Lepadatu, 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 Iaşi, 18-21 september 2019, Iași, România

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

13. D. Lepădatu, I. C. Alecu, I. Cucoș, **I. Antonescu** „Optimizarea multicriterială a lemnului sintetic utilizând inteligenţa artificială şi logica fuzzy”, Zilele Academice Ieşene, Ediţia a XXXIV-a, „Sisteme fuzzy în economie”, Institutul De Cercetări Economice Şi Sociale „Gh. Zane”, Academia Română, 24 octombrie 2019

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

15. **Ion Antonescu**, Iulian Cucoş, 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 Conferinţă 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

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17. C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu, “Platforma mobila pentru aerarea apelor de suprafata” la Târgul Internaţional de Invenţii şi Idei Practice „INVENT-INVEST 2018” Chişinău, Republica Moldova, 9-11 noiembrie 2018, Republicii Moldova, Chişinău

18. **Ion Antonescu**, Mihaela Codreanu „Consideraţii privind utilizarea panourilor fovoltaice flexibile în ariile protejate din zona de munte” la a 6-a Conferinţă 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 Expoziţia Internaţională Specializată „INFOINVENT”, organizată de Agenţia de Stat pentru Proprietate Intelectuală a Republicii Moldova, Chişinău, 15-18 noiembrie 2017

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21. **Ion Antonescu**, Mihaela Codreanu „Consideraţii privind utilizarea panourilor cu celule fotovoltaice flexibile cu polimeri semiconductori în condiţiile economiei montane” A 5-a Conferinţă 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.

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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 condiţii de incertitudine), prezentată la International Conference “Humanities And Social Sciences Today. Classical And Contemporary Issues”, 7-11 May 2015, Iaşi, Romania, organized by the Romanian Academy, Iaşi 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 Internaţional „Cunoaştere şi Reprezentare prin Sisteme Fuzzy”, Iaşi 21-22 Iulie 2015, organizat de Academia Română, Filiala Iaşi, Institutul de Cercetări Economice şi Sociale “Gheorghe Zane”.
26. **Ion Antonescu**, „Aspecte privind deciziile economice în managementul resurselor energetice regenerabile”, prezentată la Conferinţa „Zilele Academice Ieşene, Ediţia a XXIX-a” 19 Septembrie 2014, organizată De Academia Română – Filiala Iaşi, Institutul De Cercetări Economice Şi Sociale „Gh. Zane”.

G. ***Invenţii.***

1. Antohi C. M.,. Sluşer B. M., **Antonescu I.**, Creţescu I., Universitatea Tehnică "Gheorghe Asachi" din Iaşi, Platformă mobilă pentru aerarea apei de suprafaţă Brevet OSIM Nr. 131395 B1, 2019
2. Creţescu I., Teodosiu C., Zaleschi L., Soreanu G., **Antonescu I.**, Infomedia Srl, Piatra-Neamţ Reactor pentruepurarea electrochimică a apelor uzateindustriale, Brevet OSIM Nr. 129934 B1, 2019
3. **Antonescu I.**, Alecu I., Golgoţiu E., Cucoş 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 acţionată cu viteză de rotaţie 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. Creţescu 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 Tehnica ”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 deseurilor si producerea unor materialele termoizolatoare ecologice eficiente energetic pentru constructii" 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 cofinanţat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoştinţe (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 cunoştinţe (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 Neamt, Valoare: 339.350 lei, 2018-2021, Nr. luni 30, Nr. membri 5
3. Contract subsidiar „Cercetari industriale privind conversia deșeurilor de fibră de sticlă cu și fără ancolant pentru producerea unor materialele ecologice eficiente energetic pentru constructii”, 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 cofinanţat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoştinţe (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 cunoştinţe (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 Neamt, Valoare: 265.650 lei, 2018-2020, Nr. luni 24, Nr. membri 7
4. Contract subsidiar „Sistem de valorificare energetica a deseurilor lichide periculoase din constructii si producerea de produse ecologice pentru constructii”, 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 cofinanţat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoştinţe (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 cunoştinţe (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 Cucoş, **membru Ion Antonescu**, partener industrial SC INDECO GRUP SRL Bucureşti, 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 cofinanţat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoştinţe (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 cunoştinţe (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 Cucoş, **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 cofinanţat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoştinţe (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 cunoştinţe (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 Telişcă, **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 cofinanţat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoştinţe (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 cunoştinţe (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 cofinanţat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoştinţe (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 cunoştinţe (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 „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 cofinanţat din Apel: POC/71/1/4/Parteneriate pentru transfer de cunoştinţe (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 cunoştinţe (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 Bacau, 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=XY1RDoIwDEDv0m+Ja8ey0d2BmHgCZEgWiKCDLMF4d9n8MPrVpnnvtWHNz8CKIS7DGMB6Noq0rMgGlgzBO0ibYcDxHufy0TZVqbd13C5u8l1ZoFmGPoYC1yn6a59oZPBpEoMi+IRal+NIJgGawbn5djofpRZkyAhlsrGr38uBEJVElChzVmWr/nNQMPyC+9/Yga3t6w0=&wchk=092e3f4f173aa2a4b222706e049e95bb356394ca

11. Grant „Dezvoltarea platformei de cercetare pentru energie eficientă şi durabilă - ENERED", contract POSCCE-A2-O2.2.1-2009-4, ID nr. 911 - Proiect cofinanţat din Fondul Social European prin Programul Operaţional Sectorial Creșterea Competitivității Economice - POS CCE, Contractul de Finanţare 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 staţii de alimentare a autovehiculelor ecologice" PNCDI III P1 - Dezvoltarea sistemului national 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 toleranţe şi 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**, valoarel 127443.5 lei, Nr. membri 7

14. Contract nr. 3002/94-10116 Poz. C-23, Realizarea de biblioteci parametrizate de repere specifice standardelor româneşti 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 studenţi 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 studenţi la geometrie descriptivă, încheiat cu M.I., **membru în colectiv Ion Antonescu**,1993

17. Contract nr. 1080B/7464-93 Poz.B1-26, Pregătirea documentaţiei 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 pregatirea studenţilor din anii I si II de la facultăţile tehnice din cadrul Institutului Politehnic Iaşi" în valoare de 11.000 dolari S.U.A., aprobat şi finanţat de "Fundaţia 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 studenţilor la disciplina geometrie descriptivă şi desen. documentare asupra programelor folosite în ţară şi 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 Iaşi, beneficiar Intreprinderea de Autoturisme ARO, Cîmpulung-Muscel, **membru în colectiv Ion Antonescu**, 1987

I. ***Premii, distincţii.***

1. Medalia de Aur 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 Electronică Telecomunicații și Tehnologia Informației, Universitatea Tehnică „Gheorghe Asachi" din Iași, pentru lucrarea **Ion Antonescu**, Dorina-Nicolina Isopescu, Iulian Cucoș, Vlad-Cătălin Cucoș, 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, in memoriam CONSTANTIN-MARIN ANTOHI, Editia a XII-a, 10 decembrie 2021, organizat de

Societatea Inventatorilor din Romania in 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 excelenţă la Târgul Internaţional de Invenţii şi Idei Practice „INVENT-INVEST 2018" Chişinău, Republica Moldova, pentru invenţia "Platformă mobilă pentru aerarea apelor de suprafaţă", autori C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu.

8. Diploma Academiei de Ştiinţe a Moldovei, Chişinău, Republica Moldova, 2018.

9. Diplomă cu Medalia de Aur la Expoziţia Internaţională Specializată „INFOINVENT", organizată de Agenţia de Stat pentru Proprietate Intelectuală a Republicii Moldova, 15-18 noiembrie 2017, Chişinău, Republica Moldova, pentru invenţia "Platformă mobilă pentru aerarea apelor de suprafaţă", autori C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu

10. Diplomă cu Medalia de Argint la Expoziţia Internaţională Specializată „INFOINVENT", organizată de Agenţia de Stat pentru Proprietate Intelectuală a Republicii Moldova, 15-18 noiembrie 2017, Chişinău, Republica Moldova, pentru invenţia „Reactor for electrochemical treatement of industrial waste water" autori Creţescu Igor, Theodosiu Carmen, Zaleschi Laura, Soreanu Gabriela, **Antonescu Ion**

11. Diplomă cu Medalia de Bronz la Expoziţia Internaţională Specializată „INFOINVENT", organizată de Agenţia de Stat pentru Proprietate Intelectuală a Republicii Moldova, 15-18 noiembrie 2017, Chişinău, Republica Moldova, pentru invenţia „Echipament de decolmatare parţială a acumulărilor de apă" autori Raluca Mitroi, Valentin Boboc, **Antonescu Ion**

12. Diplomă de excelenţă cu Medalia de Aur la Târgul Internaţional de Invenţii şi Idei de Afaceri „INVENT-INVEST 2017" Ungheni, România-Moldova, 12-15 noiembrie 2017 organizat de Societatea Inventatorilor din România, pentru invenţia „Mobile Platform for Surface Water Aeration" autori C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu

13. Diplomă şi Medalia Târgului la Târgul Internaţional de Invenţii şi Idei de Afaceri „INVENT-INVEST 2017" Ungheni, România-Moldova, 12-15 noiembrie 2017 organizat de Societatea Inventatorilor din România, pentru invenţia „Reactor for electrochemical treatement of industrial waste water" autori Creţescu Igor, Theodosiu Carmen, Yaleschi Laura, Soreanu Gabriela, **Antonescu Ion**

14. Diploma de excelenţă la Salonul Inovării şi Cercetării UGAL INVENT, Galaţi, 19-20 octombrie 2017, organizat sub patronajul Ministerului Cercetării şi Inovării, pentru invenţia „Echipament de decolmatare parţială 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" Iaşi, România, 28-30 iunie, 2017, organizată de Institutul Naţional de Inventică Iaşi, pentru invenţia „Echipament de decolmatare parţială 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 medalia de aur, INVENTICA, iunie 2016, pentru inventia "Platform mobila pentru aerarea apelor de suprafata", autori , B.M. Sluser, **I. Antonescu**, I. Cretescu

18. Diploma de excelenta si medalia 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

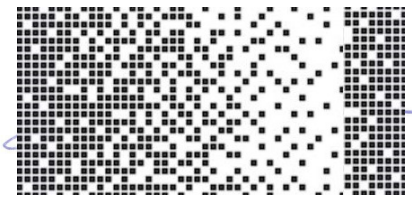
19. Medalia de aur, Sevastopol, New Times, septembrie 2016, pentru inventia “Platforma mobila pentru aerarea apelor de suprafata”, C.M. Antohi, B.M. Sluser, **I. Antonescu**, I. Cretescu
20. Premiul special acordat de Asociatia Romania pentru Tehnologii Neconventionale, Bucuresti, INVENT-INVEST/ septembrie 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” Iaşi, România, june 24-26, 2015, organizată de Institutul Naţional de Inventică Iaşi, 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” Iaşi, România, june 24-26, 2015, organizată de Institutul Naţional de Inventică Iaşi, pentru „Motogenerator” Alecu I., **Antonescu I.**, Golgoţiu E., Creţescu I.
23. Diplomă de Excelenţă – Camera de Comerţ şi Industrie Maramureş - Salonul de INVENTICA ediţia a-VIII-a Baia Mare 28-29.05.2015, „Generator de energie cu triplă conversie” autori: **Antonescu I.**, **Antonescu I.**, Alecu I., Golgoţiu E., Cucoş I., Stroe C.M.
24. Diplomă de Excelenţă – Camera de Comerţ şi Industrie Maramureş - Salonul de INVENTICA ediţia a-VIII-a Baia Mare 28-29.05.2015, „Reactor pentru epurarea electrochimică a apelor uzate industriale” autori: Creţescu I., Teodosiu C., Zaleschi L., Soreanu G., **Antonescu I.**
25. Diplomă Medalia de Aur la Salonul Internaţional de Invenţii şi Inovaţii „Traian Vuia” Timişoara, 2015 organizat de Societatea Inventatorilor din Banat, „Generator de energie cu triplă conversie” autori: **Antonescu I.**, Alecu I., Golgoţiu E., Cucoş 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 Invenţii şi Inovaţii INVENTIKA, din cadrul Târgului Tehnic Intrenaţional TIB Bucureşti, 15-18 octombrie 2014 pentru „Reactor pentru epurarea electrochimică a apelor uzate industriale” autori: Creţescu I., Teodosiu C., Zaleschi L., Soreanu G., **Antonescu I.**
28. Diplomă cu Premiul I la Secţiunea Invenţii cu Medalie de Aur la Târgul Internaţional de Invenţii şi Idei Practice „INVEST-INVENT”, organizat de Societatea Inventatorilor din România, Bucuresti, 17-23 iunie 2013, pentru lucrarea “Generator de Energie cu Triplă Conversie” autori: **Antonescu I.**, Alecu I., Golgoţiu E., Cucoş I., Stroe C.M.
29. Diplomă cu Medalia de Bronz la Expoziţa Europeană a Creativităţii şi Inovării EUROINVENT 2012, Iaşi, pentru “Low Head Hydraulic Turbine” autori: Cucoş I., **Antonescu I.**, Alecu I., Matei D.
30. Diplomă cu Medalia de Bronz acordată de Agenţia de Stat pentru Proprietate Intelectuală a Republicii Moldova la Expoziţia Internaţională Specializată “INFOINVENT”, 22-25 noiembrie 2011, Chişinău, Republica Moldova, pentru “Convertor Termopneumatic cu Hidromotor” autori: Alecu I., **Antonescu I.**,Cucoş 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.**,Cucoş I., Dumitru M.
32. Premiul special al Centrului “AIUMELI” la al VII-lea Salon Internaţional de Invenţii şi Noi Tehnologii “Timpuri noi”, 22-24 Septembrie 2011, Sevastopol, Ucraina, pentru “Termo-Pneumatical Convertor with Hidro-Engine” autori: Alecu I., **Antonescu I.**,Cucoş I., Dumitru M
33. Premiul special al Mejdunarodnaia Kadrovaia Akademia Kiev la al VII-lea Salon Internaţional de Invenţii şi Noi Tehnologii “Timpuri noi”, 22-24 Septembrie 2011, Sevastopol, Ucraina, pentru “Termo-Pneumatical Convertor with Hidro-Engine” autori: Alecu I., **Antonescu I**.,Cucoş I., Dumitru M.
34. Premiul I cu Medalie de Aur la Secţiunea Invenţii, Târgul Internaţional de Invenţii şi Idei Practice "Invest Invent" Bucureşti, 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 Expoziţia Internaţională de Invenţii, Cercetare Ştiinţifică şi Tehnologii Noi INVENTIKA, 5-8 octombrie, Bucureşti, pentru “Turbină Hidraulică de Mică Înălţime” autori: Cucoş I., **Antonescu I.**, Alecu I., Matei D.
36. Diplomă cu Medalia de Aur la a XV-a Expoziţie Internaţională a Cercetării, Inovării şi Transferului Tehnologic “INVENTICA 2011”, Iaşi, 8-10 iunie 2011, pentru “Turbină Hidraulică de Mică Înălţime” autori: Cucoş I., **Antonescu I.**, Alecu I., Matei D.

37. Diplomă de Excelenţă şi Medalia de Aur, la Salonul Internaţional de Inventică “PRO INVENT” Ediţia a VIII-a, 2010, Cluj-Napoca, pentru “Pompă cu Rotor Oscilant Acţionată cu Viteză de Rotaţie Mică” autori Alecu I., **Antonescu I.**, Cuciureanu D., Mihăilă A.
38. Diplomă de Excelenţă la Salonul Regional al Cercetării 2010, Bacău, organizat de Camera de Comerţ şi Industrie Bacău, pentru “Pompă cu Rotor Oscilant Acţionată cu Viteză de Rotaţie Mică” autori Alecu I., **Antonescu I.**, Cuciureanu D., Mihăilă A.
39. Diploma de Onoare acordată de Societatea Inventatorilor din România cu ocazia Târgului de Internaţional de Invenţii, “INVENT-INVEST SIR 20”, Iaşi, 22-27 noiembrie 2010, şi a Jubileului de 20 de ani de la înfiinţarea SIR domnului **Antonescu I.** pentru activitatea desfăşurată în domeniul creaţiei tehnice.
40. Diplomă cu Medalia de Aur la al V-lea Salon International de de Invenţii şi 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 Excelelenţă Iaşi 600 cu Medalia de Bronz, la Salonul Internaţional Jubiliar al Cercetării, Invenţiilor şi Transferului Tehnologic “INVENTICA 2008”, Iaşî, 14-24 mai 2008 pentru “Expert System for Setting The Fit Type, Choosing The Tolerance Fields and Determining of The Limit Deviances inComputer Aided Design” autori: Prună L., **Antonescu I**., Anghel A. Romanescu C., Slonovschi A.

J. ***Alte realizări semnificative.***

Recenzii la Iaşi Polytechnic Magazine, Book and Soft Reviews:
1. **Antonescu I.**, Recenzia: IBM's RS/6000 Workstation Strategy, Computer Technology Research, Iaşi Polytechnic Magazine, Book and Soft Reviews, Vol. 3, No. 1-2, Mar./Jun.,1991, pp. 95 - 96;
2. **Antonescu I.**, Recenzia: Hathaway, Louis, Preventive Maintenance, Deere & Company Service Publications, Iaşi Polytechnic Magazine, Book and Soft Reviews, Vol. 4, No. 3-4, Sept./Dec. 1992, pp. 45 - 46;
3. **Antonescu I.**, Recenzia: Tractors, Deere & Company Service Publications, Iaşi Polytechnic Magazine, Book and Soft Reviews, Vol.4, No. 3-4, Sept./Dec. 1992, pp. 46 - 47;
4. **Antonescu I.**, Recenzia: Fundamentals Of Fluid Mechanics, Student Solutions Manual, Third Edition,
Iaşi Polytechnic Magazine, Book and Soft Reviews, Vol. 10, No. 3-4, Sept./Dec. 1998;
5. **Antonescu I.,** Recenzia: Hydraulics And Pneumatics, a Techician’s and Engineer’s Guide, Second Edition, Iaşi Polytechnic Magazine, Book and Soft Reviews, Vol. 11, No. 1-2, Mar./Jun. 1999;
6. **Antonescu I.**, Recenzia: Mechanical Technology, Third Edition, Iaşi Polytechnic Magazine, Book and Soft Reviews, Vol. 11, No. 1-2, Mar./Jun. 1999;
7. **Antonescu I.**, Recenzia: In-Cylinder Diesel Particulate and NOx Control, Iaşi Polytechnic Magazine, Book and Soft Reviews, Vol. 11, No. 3-4, Sept./Dec. 1999;
8. **Antonescu I.**, Recenzia: Engine Component Technology, Iaşi Polytechnic Magazine, Book and Soft Reviews, Vol. 11, No. 3-4, Sept./Dec. 1999;
9. **Antonescu I.**, Recenzia: Virtual Prototyping, Computer Modeling, and Computer Simulation, Iaşi Polytechnic Magazine, Book and Soft Reviews, Vol. 11, No. 3-4, Sept./Dec. 1999;
10. **Antonescu I**., Recenzia: Micropolar Fluids, Iaşi Polytechnic Magazine, Book and Soft Reviews, Volume 12, No. 1-2, Mar./Jun. 2000.

Data,
6.09.2025
* Conform H.G. 1175/ 2006 Şef de lucrări. dr. ing. Ion Antonescu



Conf.dr.ing. **Sebastian ARADOAEI**

A. Teza de doctorat

1. Contribuţii privind analiza calităţii 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. Cărţi si capitole în cărţi publicate în ultimii 10 anii

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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
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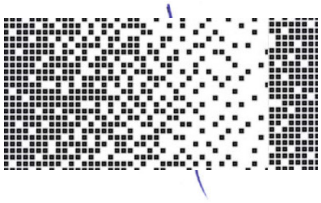
Data: 08.01.2025 **Semnătura:**

Conf. dr. ing. Aradoaei Sebastian Teodor



Conf. dr. ing. ARĂDOAEI Mihaela:

A. Teza de doctorat.

1. Contribuții privind caracterizarea biocompozitelor reciclate cu destinația elctrotehnică, 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

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

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

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11. **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.
12. Romeo Cristian Ciobanu, **Mihaela Aradoaei**, Elemente de Electrochimie, Editura PIM, Iași, 2023, ISBN 978-606-13-7819-7, pp. 232.
13. 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 .
14. Aradoaei Sebastian Teodor, **Mihaela Aradoaei**, Realizarea biocompozitelor din materiale platice și biomasă, Editura PIM, Iasi, 2023, ISBN 978-606-13-7817-3, pp. 199
15. **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.

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

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F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

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2. **Mihaela Aradoaei**, Romeo Cristian Ciobanu, Cristina Mihaela Schreiner, Gheorghe Grigoras, and Razvan Petru Livadariu, BENEFIT: An Energy Management Platform for Smart and Energy Efficient Buildings, Energies Journal 2025, Volume 18, Issue 17, 4542, DOI:10.3390/en18174542, WOS:001569696500001
3. Romeo Cristian Ciobanu, Magdalena Aflori, Cristina Mihaela Schreiner, **Mihaela Aradoaei** and Dorel Bunciuanu, Silicone Composites with Electrically Oriented Boron Nitride Platelets and Carbon Microfibers for Thermal Management of Electronics, Polymers Journal 2025, Volume 17, Issue 2, 204, DOI:10.3390/polym17020204, WOS:001403883400001
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6. Romeo Cristian Ciobanu, **Mihaela Aradoaei**, Alina Ruxandra Caramitu, Magdalena Valentina Lungu, Oliver Daniel Schreiner and Ioana Ion, Composite Paints with High Content of Metallic Microparticles for Electromagnetic Shielding Purposes, Coatings Journal 2024, Volume 14, Issue 7, 874, DOI: 10.3390/coatings14070874, WOS:001276490800001.
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Nanopowders, Electrotehnică, Electronică, Automatică , (EEA), Volumul: 67, nr. 1,pp. 61-67 2019, indexat Scopus.

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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 - Iaşi, Romania, Page 891-896, WOS: 000353565300166.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

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I. Lucrări ştiinţifice publicate în volumele conferinţelor.

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J. Invenţii.

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/finanţare 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 şi 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, finanţat 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 Operaţional 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 Operaţional 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 proprietăţi superioare de ecranare electromagnetică prin reciclarea integrată a deşeurilor electronice, (RECEMAT)*, Programul Operaţional Sectorial Creşterea Competitivităţii 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 Operaţional 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 Operaţional 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 Operaţional 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 Operaţional 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 Operaţional 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 Operaţional 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 deşeuri de fulgi/pene, pulbere de lemn şi 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, distincţii.

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 in 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** - 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 in anul 2021_aprobate, cu incadrare in bugetul competitiei, 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** - Premierea rezultatelor cercetarii 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–Fe_3O_4 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: 14. 10.2025 **Conf. Dr. Ing. Arădoaei Mihaela**

Conf. univ. dr. ing. ASIMINICESEI Oana

D. Teza de doctorat

1. ***Cercetări privind controlul şi măsurarea poluării electromagnetice***, conducător ştiinţific prof. univ. dr. Mihai Creţu, 2009.

E. Cărţi si capitole în cărţi publicate în ultimii 10 anii

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 Arădoaie- "***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. Lunca, Oana. Neacșu, M. Paulet, S. Ursache - *"Compatibilitate Electromagnetică. Aplicații"*,Editura PIM, 2015, ISBN-978-606-13-2812-3, (200 pagini)

F. 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 IAŞI, Tomul LXI (LXV), Fasc. 4, 2015, Index Copernicus, get CITED, Ulrich's
11. M.V. Păuleţ, **O.M. Neacșu**, A. Sălceanu*,” Secured access system based on the recognition of ecg characteristics”*, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iaşi, Tomul LXI (LXV), Fasc. 3, 2015, Secţia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ, Indexata în Index Copernicus, getCITED, Ulrich's

G. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (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 Electromecanical 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 IAŞI, Tomul LXI (LXV), Fasc. 4, 2015, Index Copernicus, get CITED, Ulrich's
4. M.V. Păuleţ, **O.M. Neacșu**, A. Sălceanu*,” Secured access system based on the recognition of ecg characteristics”*, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iaşi, Tomul LXI (LXV), Fasc. 3, 2015, Secţia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ, Indexata în Index Copernicus, getCITED, Ulrich's

K. Contracte de cercetare

1. **Membru în echipa de cercetare- Proiect international** ERANET-EURONANOMED nr. 193/2020: Membrane nanoporoase pentru pseudolivrarea intratecala 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 450000lei, director proiect. Marius Olariu
3. **Membru în echipa de cercetare- Proiect international-** PNIII - ERANET, COFUND-MANUNET **nr. 18/2018, *”Tehnologie de fabricare a filmelor conductive anizotropice nanostructurate cu arhitectură adaptabila sub actiunea campului 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 international** PNIII - ERANET, COFUND-MANUNET, **nr. 22/2018, *”Sistem de sortare a deșeurilor de constructii si demolari (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 international -** PNIII - ERANET, COFUND-MANUNET, **nr. 17/2018, *"Îmbunătățirea tehnologiilor de printare pentru fabricarea economica 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 international** Era Net Cofund, Titlul*:" **Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetic într-un oraş 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 international** 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 international** 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, 2018020.

Data: 10.01.2025 **Semnătura:**

Conf. univ. dr. ing. Asiminicesei Oana

Ș.l dr. ing. BACIU ALINA GEORGIANA

A. Teza de doctorat.

Stan (Baciu) 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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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

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

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

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

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

- **Baciu A.G.**, Livinț G., Irimia D.C., Poboroniuc M.S., *Battery/Supercapacitor Hybridization – Solution to improve efficiency of a vehicular system*, Conferința Națională a Acționărilor Electrice, Iași, 7-8 Iunie 2018.
- Irimia D.C., **Baciu A.G.**, Sticea D.A., Poboroniuc M.S., *New Fes-robotic glove hyybrid system for hand motor functions rehabilitation,* Conferința Națională a Acționărilor Electrice, Iași, 7-8 Iunie 2018.
- **Stan A.G.,** Adam G., Livinţ 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.**, Livinţ 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.,** Livinţ G., *Utilizarea transformatei Wavelet în analiza și filtrarea semnalelor* – Al II-lea Simpozion Stiinţific Studentesc Naţional ELStudis, 26-27 Octombrie 2010, Iasi, Romania.
- **Stan A.G.,** Livinţ 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 ştiinţifice publicate în volumele conferinţelor.

- **Aida Baltag, Gheorghe Livint, Alina Baciu, 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 Baciu *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 Baciu *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 Belehuz, Alina Georgiana Baciu, "**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 Baciu, 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 Baciu**, *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 Baciu** ; 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.**, Baciu 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. Baciu**, 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.

- Baciu 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 Baciu**, 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 IEEExplore 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 (Baciu) 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 (Baciu) 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 (Baciu) A.G.,** Livinţ 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 (Baciu) 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 (Baciu) 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.,** Livinţ 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. Inventii.

K. Contracte de cercetare.

- Membru in cadrul proiectului ROSE 185/SGU/NC/II, cu titlul *Creşterea gradului de retenţie în primul an de studii universitare în inginerie electrică şi energetică prin reducerea abandonului şi creşterea promovabilităţii*, acronim *ProElectro* cu perioada de desfăşurare 11.09.2019 - 10.09.2022, valoarea totala a finantarii 699789 lei.

- PNIII project, nr. 25PTE /2020, cu titlul *Mănuşi mecatronice textile inteligente pentru recuperarea mâinii la persoanele cu accident vascular cerebral (MANUTEX)*, 2020-2022, Responsabil proiect Poboroniuc Marian-Silviu.

- PNIII project, nr. TE114 /2020, cu titlul *Sistem hibrid BCI-Exoschelet pentru recuperarea membrelor superioare (HBES),* Director proiect Irimia Dănuț-Constantin.

- IG project P20_IDEI/2021: ***Control methods for humanoid robots using Brain Computer Interface***, coordonator de proiect: Baciu 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, distincţii.

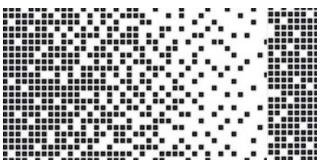
M. Alte realizări semnificative.

Data,
28.11.2025

Nume, semnătura

Baciu Alina Georgiana

* Conform H.G. 1175/ 2006



BACIU G. IOANA - Dr., lector universitar

1º Teza(-ele) de doctorat (T1, T2)
T1 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

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

Ca	**Carte/ curs/ manual publicată în străinătate**	**-**
	Capitol carte/ curs/ manual publicat în străinătate	**-**
	Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)	**-**
	Capitol curs/ manual publicat în editură recunoscută CNCS	**-**
I	**Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)**	**-**
D	**Sisteme de laborator funcţionale**	**-**
W	**Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia**	

3º Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

Cb	**Carte de specialitate publicată în editură din străinătate**	**Punctaj**
	-	
	Capitol carte de specialitate publicată în editură din străinătate	
	Cb 1 Baciu, Ioana, 'Feminism and Consumer Culture in Contemporary Film Adaptations of Fairy-Tales: Snow-White and the Huntsman and Mirror, Mirror(2012)'in Shifting Perspectives: Personal and Political Transformations, eds. Maureen Dalyn —Goggin, Barbara Raztenbock, Oana Ursulesku, Hamed Tayebi, Karl Franzens Universitat Graz, pp. 35-41, ISBN 978-3-7011- 035-1, https://unipub.uni-graz.at/obvugruniver/content/titleinfo/4589865	10
	Cb 2 Baciu, Ioana, *Femininity as Performance in Carson McCullers' 'The Ballad of the Sad Cafe', 'The Member of the Wedding' and 'The Heart is a Lonely Hunter*', Volumul Performing Identity: The Relationship between Identity, Gender and Performance in Literature, Theatre and the Visual Arta, ed. Panoyiota Crysochou, Cambridge Scholar Publishing, 2017, pp.39-52	10
	Carte de specialitate/ capitol publicat în editură din ţară, recunoscută CNCS	
	Cb 3 Baciu, Ioana, *Nature and Culture in the American Gothic,* Editura Prouniversitaria, București, 2023, 222 p.	20
R	**Articol publicat în revistă cotată ISI, cu factor de impact**	**-**
	Articol publicat în revistă indexata in baze de date internaţionale (BDI)	
	R.1. 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	3
	R.2. Baciu, Ioana, „Gheorghe Asachi" Technical University of Iasi, Recenzie*: Maggie O'Farrell, Hamnet*, Tinder Press, 2020, Les Cahiers Linguatek, 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.%20CentruI%20de%20limbi%20modeme/LesCahiersLinguatek9-10.pdf	3

R.3. Baciu, Ioana, *Medical Gothic Masculinities in Bram Stoker's "Dracula*", Linguaculture, 12:1, 2021, pp. 77-86, DOI: 10.4773/lincu-2021-1-0188 3
R.4. 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 3
R.5. 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 3

Articol/studiu publicat în revistă de specialitate neindexată în baze de date

R. 6. Baciu Ioana, *Thoreau's Civil Disobedience and Racism in The Help*, Revista ETHOS, nr. 12, 2015, Editura Institutului European, pp. 71-75 1
R. 7. Baciu Ioana, Recenzie a volumului Constanța Vintilă-Ghițulescu*, Patimă și desfătare. Despre lucrurile mărunte ale vieții cotidiene în societatea românească*, 1750-1860 (Passion and Delight. On Small Things of Daily Life in Romanian society, 1750-1860), Humanitas, București, 2015; The Patching Zone (Editor Anne Nigten), Real Projects for Real People, voi.4, Rotterdam, Tripiti, 2015, HSS V.1 (2016), DOI: 10.1515/hssr -2016-0009 1
R 8 Baciu Ioana, *Consumerism and Culture in Modemist Literature*, Revista ETHOS, nr. 13, 2015, ISSN 224 9427 Editura Universității Petre Andrei" din Iași 1

B Brevet de invenţie acordat în străinătate -
Brevet de invenţie acordat în ţară -
A Creaţie artistică prezentată la manifestare recunoscută din străinătate -
Creaţie artistică prezentată la manifestare recunoscută din ţară -
V Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)

V1 Baciu, Ioana, *Reinterpreting the Frankenstein Myth in Yorgos Lanthimos'Poor Things (2023)*, Les Cahiers Linguatek 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%20Linguatek_vol.VIII_nos.15-16.pdf 4
V2 Baciu, Ioana, *How Well Does Political Corectness 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 4
V3 Baciu Ioana, *Ted Hughes and R. S. Thomas —Advocates of Ecotheology?,* Literature, Discourse and Multicultural Dialogue 2nd Edition, Tirgu Mures. 4-5 decembrie 2014, Institutul de Studii Multiculturale Alpha în parteneriat cu Universitatea "Petru Maior"din Tîrgu Mures și Institutul de studii socio-umane "Gheorghe Șincai"al Academiei Române, pp. 991-998 4

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4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

P Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională Punctaj
-
Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale -

F Alte lucrări de proiectare-cercetare-dezvoltare

F1 P/F1 Co-responsabil proiect CRU Transversal(ity) in the Univers(ity) (Transversal(ité) dans l'Univers(ité) Développement et renforcement des compétences transversales chez les étudiants et les enseignants des filières techniques et d'architecture : communication, transdisciplinarité, autonomie) 10

F2 Expert formator în proiectul ROSE, acord de grant 348/SGU/SS/III cu titlul STIM@DIMA, Susținerea viitorilor ingineri-manageri, 19.02.2024-31.05.2024 10
F3/2024 – 15/11/2024, proiect câștigat în urma apelului de manifestare de interes pentru marcarea aniversării a 30 de ani AUF ECO 'Créer, transformer, innover, exceller ! 30 ans de l'AUF-ECO' https://www.auf.org/nouvelles/actualites/resultats-appel-manifestation-dinteret-creer-transformer-inover-exceller-30-ans-de-lauf-eco/

Data:10.01.2025

Lector univ. dr. Ioana Baciu

Drd.ing. BALAN GEORGE

A. Teza de doctorat.

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

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

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

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

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

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- Balan George, Salceanu Alexandru, Lucache Dorin Dumitru, Study on the Use of Digital Twin in Analysis of Photovoltaic System. Bulletin of the Polytechnic Institute of Iași. Electrical Engineering, Power Engineering, Electronics Section. 70. 61-73. 10.2478/bipie-2024-0004, 2025.

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I. Lucrări ştiinţifice publicate în volumele conferinţelor.

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K. Contracte de cercetare.

L. Premii, distincții.

M. Alte realizări semnificative.

Data,
17.11.2025

Nume, semnătura

Balan George

Numele şi prenumele: **BALAN IULIAN**

A. Teza de doctorat.

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

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

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M. Alte realizări semnificative.

Data, 20.11.2025 Nume, Balan Iulian

Prof.univ.ab.dr.ing. **MARCELIN BENCHEA**

A. Teza de doctorat.
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27. M.S. Baltatu, C.A. Tugui, M.C. Perju, **M. Benchea**, M.C. Spataru, A.V. Sandu, P. Vizureanu, "*Biocompatible Titanium Alloys used in Medical Applications*", Revista de Chimie, **IF = 1.755**, ISSN 0034-7752, vol. 70, nr. 4, pp.1302-1306, 2019.
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31. R14 I. Bălţatu, A.V. Sandu, M.S. Bălţatu, **M. Benchea**, D.C. Achitei, F. Ciolacu, M.C. Perju, P. Vizureanu, L. Benea, "*Structural and Physical Characterization of New Ti-Based Alloys*", Arch Metall Mater, **IF = 0.7**, ISSN 1733-3490, vol. 67, nr. 1, pp.255-259, 2022.
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Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions", Coatings, **IF = 2.9**, ISSN 2079-6412, vol. 14, nr. 2, 182, pp.14, 2024.
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50. A.M. Cazac, R.G. Chelariu, R. Cimpoesu, M.A. Bernevig, **M. Benchea***, A.M. Jurca, A.M. Radu, G.D. Vasilescu, B. Garaliu-Busoi, F.C. Lupu, G. Badarau, C. Bejinariu, "*Investigation of CuTi alloy for applications as non-sparking material*", Applied Sciences, **IF = 2.5**, ISSN 2076-3417, vol. 14, nr. 24, 11574, pp.17, 2024.
51. M. Feraru (Ilie), S.N. Mazurchevici , N.M. Lohan, **M. Benchea**, F.C. Lupu, D. Nedelcu, "*Tribological and Structural Properties of Copper-Coated 3D-Printed Parts from Biodegradable Polymers*", Micromachines, **IF = 3**, ISSN 2072-666X, vol. 16, nr. 1, 100, pp.23, 2025.
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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. Creţu S.Sp., **Benchea M.,** 2007, *Compressive Residual Stresses Effect on Fatigue Life of Rolling Bearings*, ASME - International Mechanical Engineering Congress and Exposition, IMECE 2007, paper 43561, Nov. 11-15, Seattle, WA, USA.
2. Creţu S., **Benchea M.,** 2008, A*nalysis of residual stresses impact on fatigue life of rolling contacts*, ASME/STLE International Joint Tribology Conference, OCT 22-24 2007, San Diego CA, publicat: PROCEEDINGS OF THE ASME/STLE INTERNATIONAL JOINT TRIBOLOGY CONFERENCE, PTS A AND B, pag. 609-611.
3. Creţu S., **Benchea M.,** 2012, „*An elastic-plastic analysis of profile evolution in cylindrical roller bearings*," 11th Biennial Conference On Engineering Systems Design And Analysis paper ESDA2012-82491, July 2-4, Nantes, FRANCE.
4. Creţu S., **Benchea M.,** 2013, "*An Elastic-Plastic Approach on Misalignment Effects in Cylindrical Roller Bearings*", Proc. of the 5th World Trib. Cong. (WTC 2013), Vol. 1 of 4, ISBN 978-1-63439-352-2, September 8-13, Torino, Italy.
5. Iuliana Rotaru, Bogdan Istrate, **Marcelin Benchea**, Ana Tufescu, Dumitru Olaru, 2013, „*Mechanical and structural characteristics of p(HEMA) hydrogel for lumbar disc prosthesis*", TEHNOMUS Journal, ISSN 1224-029X, no. 20, pp. 112-119.
6. Liviu Balan, Ana Tufescu, **Marcelin Benchea** and Dumitru Olaru, 2014, „*Improving the reliability of the gear transmission according to the tribological processes*", TEHNOMUS Journal, ISSN 1224-029X, no. 21, pp. 69-75.
7. George Gavrila, **Marcelin BENCHEA**, Spiridon Cretu, 2014, „*Experimental Evaluation of the Stick-Slip Phenomenon*", BALKANTRIB'14, 8th International Conference on Tribology, Cmech6, 30th Oct.-1st Nov., Sinaia, Romania.
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9. Dumitru N. Olaru, Mihaela Rodica D. Bălan, **Marcelin BENCHEA**, Alexandru Budel, Gheorghe Prisacaru, 2014, „*Influence of the Balls Interactions Forces on Friction in Linear Guidance Systems*", BALKANTRIB'14, 8th International Conference on Tribology, TME7, 30th Oct.-1st Nov., Sinaia, Romania.
10. Carmen Bujoreanu, **Marcelin BENCHEA**, Dumitru Olaru, 2014, „*Acoustic Emission Monitoring of Lubrication Regimes in Rolling Contacts*", BALKANTRIB'14, 8th International Conference on Tribology, LL&A4, 30th Oct.-1st Nov., Sinaia, Romania.
11. Ioan Stirbu, Petrica Vizureanu, Nicanor Cimpoesu, Ramona Cimpoesu, **Marcelin BENCHEA**, 2014, „*Implant Material for Sportive Injuries*", 4th Internatiional Congress of Physical Education, Sports and Kinetotherapy, 11-13 June, Bucharest, Romania.
12. Mihai Adrian Rusu, Daniela Ioniţă, **Marcelin BENCHEA**, Vlad Cârlescu, Dumitru Olaru, 2015, „*Analytical Model for Friction Force Between a Steel Roller and a Plane Polymer Sample in Sliding Motion*", COMEC2015, 6th International Conference „Computational Mechanics and Virtual Engineering", 15-16 October, Braşov, Romania.
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14. Balan Mihaela Rodica, Tufescu Ana, **BENCHEA Marcelin**, Olaru Dumitru, 2015, „*Friction Torque in Low Loaded Thrust Ball Bearings*", Proceedings of the Innovative Manufacturing Technology International Conference IManE 2015, May 20-22, Iaşi, Romania.
15. C. Bujoreanu and **M. Benchea**, 2016, „*Some considerations on noise monitoring for air handling equipments*", Proceedings of the 13th International Conference on Tribology Rotrib16, September 22-24, Galaţi, Romania.
16. M. Benchea and C. Bujoreanu 2016, „*Experimental investigation of noise parameters in hvac systems*", Proceedings of the 40th International Conference on Mechanics of Solids, Acoustics and Vibrations & the 6th International Conference on "Advanced Composite Materials Engineering" ICMSAV2016& COMAT2016, November 24-25, Braşov, Romania.
17. G. Mahu, C. Munteanu, B. Istrate, **M. Benchea**, 2017, "*Plasma sprayed coatings on crankshaft used steels*", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 227(1), 012077.
18. C. Paulin, D. Chicet, V. Paleu, **M. Benchea**, Ş. Lupescu, C. Munteanu, 2017, "*Dry friction aspects of Ni-based self-fluxing flame sprayed coatings*", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 227(1), 012091.
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20. B. Istrate, C. Munteanu, S. Lupescu, **M. Benchea**, P. Vizureanu, 2017, "*Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr3C2-NiCr Coatings on Magnesium Substrate*", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 209(1), 012024.
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36. R.G. Chelariu, **M. Benchea,** R. Cimpoeşu, O. Rusu, V. Manole, D.P. Burduhos-Negris, N. Cimpoeşu, 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.
37. Niţu N.A., **Benchea M.,** Ianuş G., Bujoreanu C., 2023, "*Noise Attenuation Analysis of a Multilayer Wall*", Innovations in Mechanical Engineering II. icieng 2022, Lecture Notes in Mechanical Engineering, Springer, Cham., doi:10.1007/978-3-031-09382-1_5.
38. 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.

J. Invenții.
K. Contracte de cercetare.

Proiecte/Contracte/Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale

K.1 GRANT UEFISCDI PN-IV-P8-8.3-ROMD-2023-0108 tema 13ROMD/2024. *Cercetări asupra îmbunătăţirii grapelor cu discuri prin acoperiri termice în jet de plasmă*
Beneficiar: *UEFISCDI*
Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iaşi
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. *Analiza și determinarea atenuării de zgomot a unui perete multistrat*
Beneficiar: *S.C. EXTENSIVE NETWORK SRL Iași*
Director proiect: conf.univ.dr.ing. **Marcelin BENCHEA**, U.T. Iaşi
Valoare proiect: 12605 RON, Perioada: 2023

K.3 GRANT UEFISCDI PN-III-P1-1.1-TE-2021-0702 tema 27TE/2021. *Materiale metalice biodegradabile inovative din sistemul Mg-Ca-Zn utilizate în aplicații ortopedice*
Beneficiar: *UEFISCDI,* Director proiect: conf.univ.dr.ing. Bogdan Istrate, U.T. Iaşi
Valoare proiect: 450000 RON
Perioada: 2022-2024
Marcelin BENCHEA: membru în echipa de cercetare (7 membri)

K.4 Contract nr. 25212/2020. *Program in Materials, Additive and Manufacturing, and Multiscale materials Engineering. 3ME*
Beneficiar: *US Army*
Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iaşi

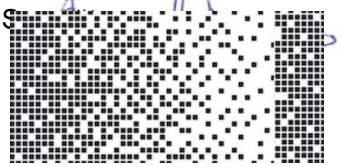
Valoare proiect: 100000 USD
Perioada: 2020-2022
Marcelin BENCHEA: membru în echipa de cercetare (7 membri)
K.5 GRANT UEFISCDI PN-III-P1-1.2-PCCDI-2017-0239 tema 60PCCDI/2018. *Obținerea şi expertizarea unor noi materiale biocompatibile pentru aplicații medicale. Proiect component 1 ORTOMAG*
Beneficiar: *UEFISCDI,* Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iaşi
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. *Obținerea şi expertizarea unor noi materiale biocompatibile pentru aplicații medicale. Proiect component 3 BIODENTRUT*
Beneficiar: *UEFISCDI*
Director/Responsabil proiect: conf.univ.dr.ing. Bogdan Istrate, U.T. Iaşi
Valoare proiect: 212000 RON
Perioada: 2018-2021
Marcelin BENCHEA: membru în echipa de cercetare (6 membri)
K.7 Contract nr. 488/2018. *Testarea pe tribometre a lubrifianţilor auto de tip Metalubs*
Beneficiar: *S.C. Metalubs S.R.L. Braşov*
Director proiect: conf.univ.dr.ing. Viorel Paleu, U.T. Iaşi
Valoare proiect: 17226 RON
Perioada: 2018
Marcelin BENCHEA: membru în echipa de cercetare (5 membri)
K.8 Contract nr. 21896/2018. *Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300 Built-in, fabricată de S.C.Ensyro SRL*
Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: prof.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
Valoare proiect: 10000 RON
Perioada: 2018
Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.9 Contract nr. 16663/2017. *Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-700BV/BH, fabricată de S.C. Ensyro SRL*
Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: prof.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
Valoare proiect: 10000 RON
Perioada: 2017
Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.10 Contract nr. 1615P/2016. *Analiza caracteristicii de zgomot şi a atenuării pentru 9 variante constructive de atenuatoare căptuşite cu materiale diferite* Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
Valoare proiect: 15000 RON
Perioada: 2016
Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.11 Contract nr. 605P/2016. *Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-400BV/BH, fabricată de S.C. Ensyro SRL,* Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi, Valoare proiect: 10000 RON
Perioada: 2016
Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.12 Contract nr. 2001P/2015. *Analiza caracteristicii de zgomot pentru patru variante constructive de atenuatoare de zgomot (125/125 la 90° şi 180°; 160/160 la 90° şi 180°) produse de S.C. Ensyro SRL*
Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
Valoare proiect: 10000 RON
Perioada: 2015
Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.13 Contract nr. 1980P/2015. *Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-350BV, fabricată de S.C. Ensyro SRL*
Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
Valoare proiect: 10000 RON

Perioada: 2015
Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.14 Contract nr. 1324P/2015. *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*
Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
Valoare proiect: 15000 RON
Perioada: 2015
Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.15 Contract nr. 1101P/7.07.2015. *Analiza coeficientului de absorbţie acustică pentru materiale fonoabsorbante*
Beneficiar: *UNIVERSITATEA „VASILE ALECSANDRI" din BACĂU*
Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
Valoare proiect: 5000 RON
Perioada: 2015
Marcelin BENCHEA: membru în echipa de cercetare (2 membri)
K.16 Contract nr. 60P/20.01.2015. *Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300BV/BH, fabricată de S.C. Ensyro SRL*
Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
Valoare proiect: 10000 RON
Perioada: 2015
Marcelin BENCHEA: membru în echipa de cercetare (3 membri)
K.17 Contract nr. 1489P/21.10.2014. *Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300H, fabricată de S.C. Ensyro SRL*
Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
Valoare proiect: 10000 RON
Perioada: 2014
Marcelin BENCHEA: membru în echipa de cercetare (3 membri)
K.18 Contract nr. 1010P/14.07.2014. *Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-400HV, fabricată de S.C. Ensyro SRL*
Beneficiar: *S.C. ENSYRO S.R.L. Cluj-Napoca*
Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iaşi
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 *Cercetări privind influenţa zonelor plastice interioare asupra stării de tensiuni şi deformaţii la solicitarea de contact*
Beneficiar: *CNCSIS*
Director proiect: **Marcelin BENCHEA**, U.T. Iaşi
Valoare proiect: 40497 RON
Perioada: 2007-2009

L. Premii, distincții.

M. Alte realizări semnificative.

Data: 21/11/2025 **prof.univ.ab.dr.ing. Marcelin BENCHEA**



Dr. Ec. BREZULEANU MĂDĂLINA MARIA

A. Teza de doctorat.

Doctor în economie teză cu titlul: „RELAȚIA LIBERTATE ECONOMICĂ - BUNĂSTARE INDIVIDUALĂ: REPERE TEORETICE, DOVEZI EMPIRICE, IMPLICAȚII NORMATIVE” anul 2024, Universitatea „Al. I. Cuza” Iaşi, Facultatea de Economie și Administrarea Afacerilor Iași,

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.
C. Cărţi (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.
E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.
F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1.DETERMINANTS OF SUBJECTIVE WELL-BEING AMONG EUROPEAN UNION`S OLDER ADULTS, autori: Alexandra Cristina Sîrbu, *Mădălina Brezuleanu*, Claudiu Tiganaș, Mircea Asandului, Andreea Iacobuță, revista TRANSFORMATIONS IN BUSINESS & ECONOMICS, vol.21, nr. 2A (21A), 2022, Factor de impact = 1,824, Scor de influență = 0,161, WOS: 000927592100015, pag. 671-689, ISSN: 1648-4460

2 ADAPTATION OF ENTREPRENEURIAL EDUCATION AND TRAINING IN ECONOMICS FOR THE STUDENTS OF „ ION IONESCU DE LA BRAD” UNERSITY OF LIFE SCIENCE (IULS) IAȘI, ROMANIA, IN THE CONTEXT OF CHARGING LABOR MARKET NEEDS, Carmen-Olguța Brezuleanu, Roxana Mihalache, *Mădălina-Maria Brezuleanu*, Elena Ungureanu, Alina Sirghea, SCIENTIFIC PAPER-SERIES MANAGEMENT ECONOMIC ENGINERING IN AGRICULTURE AND RURAL DEVELOPMENT,VOL.24, Issue 1, 2024, pag. 135-146, Factor de impact = 1,4, ISSN 2284-7995, E-ISSN 2285-3952.

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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1.MANAGEMENTUL RISCURILOR ÎN MICILE AFACERI, BREZULEANU Mădălina Maria, în volumul conferinței ”Conferința științifică Internațională PROMOVAREA VALORILOR SOCIAL-ECONOMICE ÎN CONTEXTUL INTEGRĂRII EUROPENE, Ediția a 7-ea ” 2025, Chișinău, Rep. Moldova, pag 73-88, ISBN 978-9975-3611-4-9.3(082)

J. Invenții.

K. Contracte de cercetare.

1. ȘCOALĂ ANTREPRENORIALĂ PENTRU SUSȚINEREA INIȚIATIVELOR DE AFACERI STUDENȚESTI INOVATIVE (SASIASI)- CNFIS-FDI-2019-0192, http://sas-usamviasi.ro/

2. MODERNIZAREA ACTIVITĂȚII DE PREDARE-ÎNVĂȚARE-EVALUARE DIN ÎNVĂȚĂMÂNTUL SUPERIOR AGRONOMIC ȘI RESPECTAREA DEONTOLOGIEI ȘI ETICII ACADEMICE CNFIS-FDI-0258-2019_____http://www.cnfis.ro/wp-content/uploads/2019/04/Rezultate_finale-FDI2019-lista_proiecte_domenii_site.pdf
3. DEZVOLTAREA COMPETENȚELOR ȘI INIȚIATIVELOR DE AFACERI STUDENȚEȘTI PRIN INOVARE ÎN DOMENIUL AGRONOMIC CNFIS- FDI 0247- 2020. http://www.cnfis.ro/wp-content/uploads/2020/03/FDI2020-Rezultate-finaleCNFIS-lista-proiecte-publicare.pdf
4. CREȘTEREA VIABILITĂȚII ECONOMICE A FERMEI PRIN OPTIMIZAREA UTILIZĂRII FACTORILOR DE PRODUCŢIE ÎN CONDIȚII DE REZILIENȚĂ LA FACTORII CLIMATICI RESPECTÂND PRINCIPIILE DEZVOLTĂRII DURABILE-Contract de consultanță și cercetare dezvoltare nr. 9762/10.07.2023 între USV Iași și SC EVEL-H COMPANY SRL, jud. Vaslui.
5. STUDII PRIVIND SEMIOTICA ȘI RETORICA ELEMENTELOR PUBLICITARE DIN DOMENIUL PREPARATELOR DIN CARNE- Contract de cercetare aplicativă nr, 6607/22.04.2024 între USV Iași și SC Industrializarea cărnii KOSAROM SA.
6. DEZVOLTAREA DE SERVICII EDUCAȚIONALE DE CALITATE PRIN STAGII DE PRACTICĂ ÎN ÎNVĂȚĂMÂNTUL PROFESIONAL ȘI TEHNIC DIN DOMENIUL AGRICOL ȘI DE INDUSTRIE ALIMENTARĂ-cod proiect My Smis2021+:308587/2024, Beneficiar Colegiul Agricol și de Industrie Alimentară V. Adamachi Iași

L. Premii, distincții.

Lucrări premiate

ECONOMIC FREEDOM AND VARIETIES OF CAPITALISM, Mădălina-Maria Brezuleanu, Premiu: Medalie de BRONZ, în cadrul International Exihibition of Innovation and Technology Transfer EXCELLENT IDEA-2023.

Medalie de Bronz, Mădălina-Maria Brezuleanu, Euroinvent, 2025.

M. Alte realizări semnificative.

Data,

Nume, semnătura

Dr. Ec. BREZULEANU MĂDĂLINA MARIA

Conf.dr.ing. **BRÎNZILĂ V. Marius Ciprian**

A. Teza de doctorat.

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

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

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

1. Marius Branzila, Sisteme senzoriale pentru monitorizarea parametrilor de mediu, Ed. PIM, Iaşi, 210 pagini, ISBN 978-606-13-4154-2
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D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Mihai Creţu, Constantin Sarmasanu, Marius Branzila, 2017, Senzori si traductoare, Politehnium, Iaşi, 369 pagini, ISBN 978-973-621-472-1

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2. Senzori si sisteme senzoriale. Support curs, https://edu.tuiasi.ro/mod/folder/view.php?id=14459
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F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

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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)
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4 Brînzilă M.C, Pereira M.D., Donciu C., Cretu M., Internet Based Meteorological Center, IAŞI – ROMÂNIA Buletinul Institutului Politehnic din Iasi, Tomul LII(LIV), Fasc. 5., 2006, ISSN 1223-8139 pp.965-970

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I. Lucrări ştiinţifice publicate în volumele conferinţelor.

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 frontieres and methods for electrica land alectronic 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 frontieres and methods for electrica land alectronic 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 frontieres and methods for electrica land alectronic 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

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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 1stIMEKO 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. Invenţii.

1. David Valeriu, Foşălău 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 Euro dupa caz)

1. Sistem complex de monitorizare si control a calitatii mediului pentru un laborator virtual al societatii informationale, 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 şi distribuite de management a calităţii şi mentenanţei/520000 RON
7. Dezvoltarea capacităţii de integrare a romaniei în cadrul programelor, platformelor şi reţelelor 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 electomagneice 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 electomagnetice in domeniul GHz173/2006,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 securitatatii alimentelor, 179/2006, 200000 RON
11. Biocompozite obtinute prin reciclarea deseurilor de pet si utilizarea de derivaţi 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

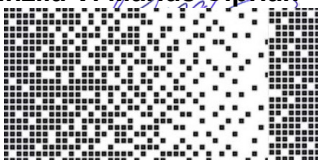
13. Materiale inteligente tip chiral-fagure pentru aplicatii multisectoriale (si extinderea aplicatiilor propuse initial pentru domeniul protectiei la radiatii electromagnetice - prin materiale si tehnologii avansate pentru constructii speciale), 115/2006,659383 RON
14. Materiale inteligente tip chiral-fagure 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 izolatie destinate functionarii in conditii extreme si tolerante la defectare, CNCSIS A 489/2004, 150000 RON
18. Sistem de măsurare distribuita dezvoltat prin metode de instrumentaţie 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, finanţat prin ENI CBC, cu titlul “Direct Access to Students”, acronim DAS.

L. Premii, distincţii.

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, Octombrie 2025 Conf.dr.ing. **Brînzilă V. Marius Ciprian**



Numele şi 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. Cărţi (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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

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

D. Cărţi (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 diferenţial si integral*, Editura Studis, Iaşi, 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 şi probleme pentru concursurile studenţeşti de matematică*, vol. 2, Concursuri internaţionale, Editura Studis, Iaşi, 2013, 251pg.
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3. O. N. Stănăşilă, 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 şi probleme pentru concursurile studenţeşti de matematică, vol. 3, Concursuri naţionale, Editura Studis, Iaşi, 2013, 385 pg.
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E. Cărţi (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).
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F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

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.

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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. Cuzalași*,* (N.S), 61(1)(2015), 59-78.

F8. **M. D. Burlică**, D. Roşu, 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. Cuzalași*,* (N.S), 54(2) (2008), 361-382.

F11. **M. Burlică**, D. Roşu*, 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, 1 (2008), 427-444

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

H1. **M. Burlică**, D. Roşu, *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 ştiinţifice publicate în volumele conferinţelor.

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. Invenţii.

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. Marinel 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 Seghedin, 36 membri

K4. 2020-2022 Consilier mentor proiect ROSE 367/SGU/SS/III „Viitorul este electric!", director grant sef lucrari dr.ing. Cristina Vatavu, 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 funcţional-diferenţiale cu întârziere în spaţii Banach"(5 membri), membru în echipă.

K7. 2011-2013 Proiect POSDRU/56/1.2/S/32768, „Formarea cadrelor didactice universitare şi a studenţilor in domeniul utilizării unor indtrumente moderne de predare-învăţare-evaluare pentru disciplinee matematice, în vederea creeării de competenţe performante şi practice pentru piata 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 diferenţiale 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 măsuri" 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 existenţei, unicităţii, stabilităţii şi aproximării soluţiilor unor clase de ecuaţii funcţionale"*, încheiat de Universitatea Tehnică "Gheorghe Asachi", Iaşi, director proiect prof. dr. Adrian Corduneanu, **membru în echipă**
Nr. 33371/2004, tema 50; nr. 34664/2005, tema 21.

Premii, distincţii.

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

L. Alte realizări semnificative.

Data,
24.10.2025

BURLICĂ MONICA

Prof.dr.ing. BURLICĂ Radu

A. Teza de doctorat.

Acţionarea cu electromagneţi a aparatelor electrice susţinută public în cadrul Universităţii Tehnice “Gheorghe Asachi” din Iaşi, Facultatea de Inginerie Electrică, în data de 05.19.1999

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

Dragoș Astanei, Radu Burlică, Tehnici de comutație – note de curs, Editura PIM, Iași, 2022, ISBN: 978-606-13-7147-1, 230 pag

Radu Burlică, Dragoş Astanei, Plasma non-termică: Fundamente, Aplicații, Analiză, Editura PIM, Iași, 2020, ISBN 978-606-13-5944-8, 325 pag

Dragoş Astanei, Radu Burlică, Tehnici de comutaţie – aplicaţii, Editura PIM, Iași, 2022, ISBN: 978-606-13-7148-8, 146 pag

Iuliana-Delicia Dîrlău Radu Burlică , Aplicații ale plasmei non-termice în agricultură, Ed. Politehnium, 2023

Radu Burlică, Dragoş Astanei, Plasma non-termică: Fundamente, Aplicații, Analiză, Editura PIM, ISBN 978-606-13-5944-8, Iași, 2020.

R. Burlica, "Descarcari electrice de tip plasma rece. Aplicatii pentru mediu", Ed. PIM 2015, , ISBN: 978-606-13-2409-5

R. Burlică, "Tehnici de comutaţie", Editura PIM, 2014, ISBN: 978-606-13-2019-6 .

E Hnatiuc, R. Burlică, B. Hnatiuc, "Bazele Teoretice ale Funcţionării Aparatelor Electrice", Editura Venus, Iaşi, 2004, ISBN: 973-7960-52-1

R. Burlică, E. Hnatiuc, B. Hnatiuc, "Aparate Electrice de Comutaţie Acţionate cu Electromagneţi", Editura Venus, Iaşi, 2004, ISBN: 973-7960-30-0.

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

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

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

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

R1 E. G. Acar, D. Doganoz, D. Çavdar, F. Karbancioglu-Guler, R. Burlica, D. Astanei, M.-A.Olariu, G. Gunes, *Efficacy of Atmospheric Non-thermal Plasma Corona Discharge Under Dry and Wet Conditions on Decontamination of Food Packaging Film Surfaces*, Packaging Technology and Science, vol. 37, issue 12, pp. 1121-1130, 2024, WOS: 001297514900001, factor de impact (2023) 2,8 – Q2.

R2 M.A. Olariu, R. Herrero, D.G. Astanei, L. Jofré, J. Morentin, T.A. Filip, R. Burlica, *Improving Printability of Polytetrafluoroethylene (PTFE) with the Help of Plasma Pre-Treatment*, Polymers, vol. 15, issue 16, Art. number 3348, 2023, WOS: 001056759800001, factor de impact (2023) 4,7 – Q1.

R3 S. Padureanu, R. Burlica, V. Stoleru, O. Beniuga, D. Dirlau, D.E. Cretu, D. Astanei, A. Patras, *Non-Thermal Plasma-Activated Water: A Cytogenotoxic Potential on Triticum aestivum*, Agronomy, vol 13, issue 2, Art. number 459, 2023, WOS: 000938080900001, factor de impact (2023) 3,3 – Q1.

R4 A. Mandici, C. Rosu, R. Burlica, D.E. Cretu, D. Astanei, O. Beniuga, D.C. Topa, T.G. Aostacioaei, A. Miron, *Effects of non-thermal plasma activated water and low temperature on wheat sprouts: a focus on photosynthetic pigments, protein and phenolic contents, antioxidant activity, antioxidant and prooxidant enzymes activity*, Farmacia, Vol. 70 Issue 6, p1072-1080, 2022, WOS: 000969664100010, factor de impact (2023) 1,4 – Q4.

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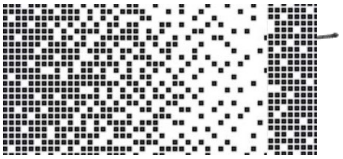
Data, 09.01.2016

Nume, semnătura
Prof.dr.ing. Radu Burlica



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H4.Butnariu A., Contabilitatea mediului şi indicatorii de mediu, Univers Economic, nr. 5(4), 2010
H5.Butnariu A., Irimia M., Measuring the Corporative Responsibility, Means and Concerns, Univers Economic, nr. 4(3), 2009
H6.Irimia, M.P., Butnariu A.: „Controversial aspects of european economy", Buletinul Institutului Politehnic, secţia Ştiinţe 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 Iaşi, nr. 2-3(3), 2009.
H8.Irimia, M.P., Butnariu A.: „Perspectives of the flexibility of labour market in modern economies", Buletinul Institutului Politehnic, secţia Ştiinţe 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 şi sistemul de recompense în economia de piaţă”, 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 ştiinţifice publicate în volumele conferinţelor.

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 competitivity in Romanian textile industry*, Proceedings of the 15th Romanian Textile and Leather Conference, 2014.

I4.**Butnariu A.**, *Corporate sustainability and corporate social responsability: 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, 1.12.2025

Butnariu Anca

* Conform H.G. 1175/ 2006

BUTNICU J. Dan

1º Teza(-ele) de doctorat (T1, T2)

T1. "*Cercetări privind selecția componentelor folosind fiabilitatea și stadiul lor tehnologic pentru convertoarele*
DC-DC de mare putere și joasă tensiune". **Teza de Doctorat.**
2019, Universitatea Tehnică Ghe. Asachi din Iași, domeniul - Inginerie Electronică Telecomunicații și Tehnologii Informaționale, conducător doctorat - Conf. Univ. dr. ing. Dorin O. NEACȘU.

T2. "*Convertoare DC-DC de tip PoL moderne. Abordare ,,Workbench Hands-on" din perspectiva Fiabilităţii folosind Standarde Internaţionale şi Metode de Scanare Termică în Infraroşu pentru Calculul Factorului de Stres πT*". **Teza Postdoc.**
2023, Universitatea Tehnică Ghe. Asachi din Iași, domeniul - Inginerie Electronică Telecomunicații și Tehnologii Informaționale, mentor - Conf. Univ. dr. ing. Dorin O. NEACȘU, tutor - Prof. Univ. dr. ing. Radu BOZOMITU,

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

Ca	**Carte/ curs/ manual publicată în străinătate**	**Punctaj**
	Ca1	
	Ca2	
	Capitol carte/ curs/ manual publicat în străinătate	
	Carte publicată în editură recunoscută CNCS (unic autor)	
	Ca1: *Ghid pentru studiul dispozitivelor si circuitelor electronice utilizand OrCAD-SPICE* Editura Tehnopress-Iași, 2025, ISBN 978-606-687-535-6, 184 pagini, format Academic (17cm/24cm) 30 randuri pe pagina	9,2
	...	
	Capitol curs/ manual publicat în editură recunoscută CNCS	
	...	
	…	
I	**Indrumar/ culegere de probleme (publicat sau disponibil pe Web)**	
	I1:*Culegere de probleme – electronica* (disponibil pe web - MTeams, cont institutional TUIASI, dan.butnicu@academic.tuiasi.ro, echipa Electronica)	4
	I2	
	…	

D	**Sisteme de laborator funcţionale**	
	D1: Amenajare lucrare nouă de laborator cu instalaţie experimentală si Modul experimental pentru laborator cu ADALM 1000(2000) de la Analog Devices-Laborator Electronică ETH&AC	1,5
	D2: *Modul experimental pentru laborator cu ADALM-BUCK - ARDZ* de la Analog Devices- Laborator Automotive Power Electronics Electronics - AECS master	1,5
	D3: *Modul experimental laborator cu ADALM - SR1* de la Analog DevicesLaborator Automotive Power Electronics - AECS master	1,5
W	**Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.**	
	W1: Suport de studiu laborator - pentru aplicaţii (laborator) la disciplina "Electronică", disponibil pe Web	1
	W2: Support video - pentru aplicaţii (laborator) și seminar la disciplina "Electronică ", disponibil pe Web	1
	W3: Support PPT – pt. laborator și seminar	1

3º Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

	Carte de specialitate publicată în editură din străinătate	**Punctaj**
Cb	Cb1	
	Cb2	
	...	
	Capitol carte de specialitate publicată în editură din străinătate	
	Cb1 : Book Chapter : *Comparative Study for DC-DC Converter Output Bank's Reliability Evaluation Using Prediction Standards MIL-HDBK-217F vs. Telcordia SR- 332* In Advances in Energy Research – 5th Edition, VIDE LEAF Ed., India, 2025 ISBN : 978-93-92117-3	2,6
	...	
	Carte de specialitate/ capitol publicat în editură din ţară, recunoscută CNCS	
	…	
R	**Articol publicat în revistă cotată ISI, cu factor de impact**	
	R1:**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	3
	R2: **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	6

	R3: **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	3
	R4: **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.	2
	R5: **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.	2
	R6: **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	6
	Articol publicat în revistă indexata in baze de date internaţionale (BDI)	
	R7 : 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.	1
	R8 : 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	1,5
	R9 : 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	0,5
	Articol/studiu publicat în revistă de specialitate neindexată în baze de date	
	...	
	...	
V	**Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)**	
	V1 : 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.	0,666
	V2 : **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.	2
	V3 : **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.	2
	V4 : 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:	2

	10.1109/ISSCS.2017.8034882.	
	V5 : **Dan Butnicu**, Luminiţa-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.	2
	V6 : **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.	4
	V7 : 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.	1,333
	V8 : **Dan Butnicu**, Luminiţa-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.	2
	V9 : **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.	2
	V10 : **Dan Butnicu**, Luminiţa-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.	2
	V11 : **Dan Butnicu**, Luminiţa-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	2
	V12 : **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.	1,333
	V13 : **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.	4
	V14 : **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	4

	Packaging (SIITME), 2021, pp. 250-253, doi: 10.1109/SIITME53254.2021.9663584.	
	V15 : **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.	2
	V16 : **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.	4
	V17 : **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.	2
	V18 : **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:	2
	10.1109/INTELEC60315.2024.10679014.	
	V19 : **Dan Butnicu**, R. Tristu, "*Comparative Workbench study about MTBF for PoL Buck-Converters: Asynchronous vs. synchronous*," 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME)Sibiu 2024,	2
N	**V20** : **Dan Butnicu**, D. Ionescu, I. M. Tamas, "*Comparative Workbench Study of MTBF for PoL Converters with discrete Transistors*," 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Sibiu 2024	2
	V21 : **D. Ionescu**, D. Butnicu, "*Influence of the Electrodes Porosity on the Supercapacitors Charging Performance*," 2024 IEEE 30th International Symposium for Design and Technology in Electronic Packaging (SIITME), Sibiu 2024,	2
	V22 : 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.	0,8

4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională	**Punctaj**

P	**P1**:JINR Laboratory: Frank Laboratory of Neutron Physics (FLNP), Joint Institute for Nuclear Research, 6, Joliot-Curie str., 141980 Dubna, RUSSIA, http://flnph.jinr.ru Romanian Partner Institution(s): “Gheorghe Asachi” Technical University of Iasi (TUIASI), bd. Dimitrie Mangeron, nr. 67, 700050 Iasi, Romania, https://www.tuiasi.ro/ Title : *Development and comprehensive research using nuclear physics methods of functional environmentsfor ultrahigh-density capacitors based on Zirconia nanopowders for nanoelectronics and microsystem technology* Theme code: 03-4-1128-2017/2022	4
	P2	
	…	
	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale	
	P2: Grant naţional de cercetare ARUT al TUIASI, cod GnaC2023_259 / 2024, cu titlul: „ *Reducerea amprentei CO2 prin predictia MTBF şi scanarea IR asupra condensatoarelor electrolitice din SMPS moderne*” (RACO2) – valoare totală 49771 lei (echivalent 10000 EURO) Sursa de finanţare: Fondul pentru Finanţarea Cercetării Ştiinţifice Universitare, contract CNFIS-FDI-2024-0598 şi Venituri Proprii TUIASI	11,6
	P3: *Performanţă şi excelenţă în cercetarea postdoctorală* – 2022-2023 (Contract de studii postoctorale de cercetare avansată nr.17171 din 25.05.2022, Univ.tehnică Ghe. Asachi - Iaşi) Cod proiect: POCU/993/6/13/153437	10

Note:Data: 02.06.2025

Dan BUTNICU

Ș.l.dr.ing. GABRIEL CHIRIAC

A. Teza de doctorat

,,*Contribuţii la utilizarea eficientă a energiei de mişcare a vehiculelor*” – 2002, Domeniul – „Inginerie electrică” **,** Universitatea Tehnică ,,Gh. Asachi” Iaşi, conducător de doctorat Prof.dr.ing. Lorin Cantemir.

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

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

1. Costică Nițucă (coord.), Ilie Nucă (coord.), Adrian Traian Plești, **GABRIEL CHIRIAC**, Vadim Cazac, Marcel Burduniuc, Georgel Gabor, Adrian Moldovan, *Guideline regarding the improve of the energetical performances for an electric bus*, Ed. Tritonic, București, 2022, 220 pag. (în limba engleză).
2. **Gabriel CHIRIAC**, Radu Ilinca, Cătălin Damian, Tiberius Dumitriu, *Instrumente informatice fundamentale pentru ingineri*, Ed. Tehnopres, Iaşi, **2014**, ISBN: 978-606-687-070-2, 293 pag.
3. Dorin Lucache, Georgel Paicu, **GABRIEL CHIRIAC**, Elena Dănilă, *Utilizări ale energiei electrice*, Aplicaţii, Ed. Pim, **2014**, ISBN 978-606-13-2036-3.
4. Mircea Ilinca, **GABRIEL CHIRIAC**, Tiberius Dumitriu, Claudiu Moraru, *Utilizarea calculatorului pas cu pas*, Editura Pim, Iaşi, **2009**, 320 pag.
5. Gheorghe Livinţ, Radu Gaiginschi, Vasile Horga, Radu Drosescu, **Gabriel Chiriac**, Mihai Albu, Marcel Răţoi, Ion Damian, Marian Petrescu, *VEHICULE ELECTRICE HIBRIDE*, Editura Venus, 2005, ISBN: 973-756-002-7.

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

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

1. Indrumar laborator Tracţiune electrică, http://www.euedia.tuiasi.ro/?page_id=1185&lang=ro
2. Indrumar laborator Utilizarea energiei electrice, http://www.euedia.tuiasi.ro/?page_id=1251&lang=ro

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. **CHIRIAC G**, Lucache DD, Nițucă C, Dragomir A, Ramakrishna S. *Electric Bus Indoor Heat Balance in Cold Weather*. Applied Sciences. **2021**; 11(24):11761. **Factor de Impact:** 2,83.
2. Niţucă Costică , Dragomir Alin , Gabor Georgel , **CHIRIAC GABRIEL** , Simulated thermal response of a battery pack used by electric two-wheelers, Thermal Science **2025** OnLine-First,194-194, https://doi.org/10.2298/TSCI250724194N.
3. 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.
4. C. -B. Paduraru, M. Adam, A. Dragomir, G. **Chiriac**, A. Anton and V. Rachier, "Infrared Thermal Stresses Monitoring of Medium Voltage Switchgear Cabinet," *2025 International Conference on Electromechanical and Energy Systems (SIELMEN)*, Iasi, Romania, 2025, pp. 293-297, doi: 10.1109/SIELMEN67352.2025.11260686.
5. G. Gabor, C. Nituca, A. Dragomir, G. **Chiriac**, V. Cazac and M. Boca, "Low Voltage Circuit Breaker Controlled by Programmable Logic Controller," *2025 International Conference on Electromechanical and Energy Systems (SIELMEN)*, Iasi, Romania, 2025, pp. 862-866, doi: 10.1109/SIELMEN67352.2025.11260766.
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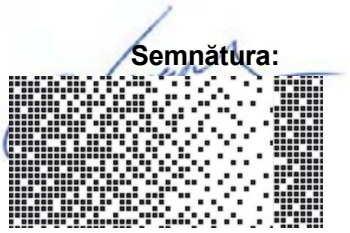

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Ca	**Carte/ curs/ manual publicată în străinătate**	**Punctaj**
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	D2. Determinarea pH-ului.Variația potențialului de oxido-reducere cu pH-ul. Variația cu temperatura (Chimie. Elemente de electrochimie)	2
	D3. Pile electrice (elemente galvanice) - Pila Daniell-Jacobi (Chimie. Elemente de electrochimie)	2
	D4. Electroliză. Trasarea curbelor de polarizare. Electroliza apei (Chimie. Elemente de electrochimie)	2
	D5. Depunerea de metale în soluții. Depunerea spontană a cuprului pe electrozi de fier şi zinc (Chimie. Elemente de electrochimie)	2
	Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.	

3º Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

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4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională
	P1. **Director** al proiectului CEEX M3 / CNMP / 173/, 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, 2006-2008
	P2. Director al proiectului 'Danube Wetlands and flood plains Restoration through systemic, community engaged and sustainable innovative actions', DaWetRest, Contract nr. 101113015/2023, din cadrul HorizonEurope, finanţat prin CE HORIZON Action Grant Budget-Based, (Buget total - 88062,5 euro)
	P3. Director al proiectului PN2 Parteneriate / CNMP/51-015/14.09.2007, Metodologie dielectrica nedistructiva, neinvaziva, comparativa de detectare rapida a ingredientilor cu potential factor de risc pentru sanatate din produsele alimentare, 2007-2009
	P4. Director al proiectului PN2 Idei / CNCSIS/320/2007/Spectroscopia dielectrica de banda larga, ca metoda comparativa, nedistructiva si neinvaziva de determinare a compusilor cu potential de risc din produsele alimentare, 2007-2009
	P5. Director al proiectului 'Biosenzori bazati pe arhitecturi nanofluidice pentru detectia proteinelor umane' (MINaFBioS), PN III - ERANET, MANUNET-III, Contract nr. 149/2020,
	P6. Director al proiectului 'Membrane nanoporoase pentru pseudolivrarea intratecala a medicamentelor' (INTREPIDUS), PN III ERANET-EURONANOMED, Contract nr. 193/2020,
	P7. **Membru în echipa de implementare a proiectului** '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,
	P8. Director al proiectului CEEX M2PD/ CNCSIS/ 1527/2006, Masurari dielectrice avansate dedicate domeniului bio si nano compozitelor, 2006-2008
	P9. Director al proiectului CORINT / CNMP / 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 special), 2006-2007
	P10. Director al proiectului Grant A /CNCSIS / 489/, Metode avansate de proiectare si testare a sistemelor de izolatie destinate functionarii in conditii extreme si tolerante la defectare,
	P11. Director al proiectului Grant E /CNCSIS / 82/, 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, 2004-2006
	P12. Director al proiectului GrantA /CNCSIS / 230/, Estimarea fiabilitatii sistemelor de izolatie utilizand analiza fenomenului de descarcari partiale in banda larga de frecventa si aplicatii in electroenergetica, 2002-2004
	P13. Director al proiectului 9. CEEX M1/ MATNANTECH, 79/, Biocompozite obtinute prin reciclarea deseurilor de PET si utilizarea de derivaţi ligno-celulozici, 2006-2008
	P14. Director al proiectului 10. CEEX M3/CNMP/BCN-NET/ Dezvoltarea capacitatii de integrare a romaniei in cadrul programelor, platformelor si retelelor europene in domeniul obtinerii de biocompozite cu aplicatii multisecoriale, 2006-2008
	P15. Director al proiectului Bilateral RO – Korea, nr. 64CB/2008: Filme ceramice subtiri nanoporoase din cristale zeolitice pe baza de siliciu pentru materiale cu constanta dielectrica redusa, 2008 – 2009
	P16. Director al proiectului Bilateral RO – Turcia, nr. 63CB/2008: Ecrane si panouri absorbante pentru utilizari speciale bazate pe compozite nano-structurale cu arhitectura predefinita si proprietati dielectrice si electromagnetice personalizate, 2008 – 2009

	P17. Director al proiectului Bilateral RO – Slovacia, nr. 655/2013: Materiale compozite inovative pentru ecranare electromagnetică, bazate pe pulberi nano-conductive obținute din recilarea WEEE (deșeuri din echipamente electrice și electronice), 2013-2014
	P18. Director al proiectului Leonardo - cu Istituto Tecnico Industriale Statale "Vittorio Emanuele III", Palermo, Italia / Quality management of measurements laboratories in industry and services, 2001-2002
	P19. Director al proiectului NATO SfP 983931 / SUSCAREM / SUStainable management of toxic pollutants in Central Asia: towards a Regional Ecosystem Model for environmental
	P20. Director al proiectului Grant Nato CLG 980057/ PST / Multifactor accelerated aging of electrical insulation under conflict conditions and remedial actions, 2004-2005
	P21. Director al proiectului ERA-NET - Cofund Smart Cities and Communities - SMART URBAN ISLE - "Smart bioclim
	P22. Director al proiectului Grant NMP-STREP/FP6/ nr. 013641/ CHISMACOMB – Smart chiral Honeycomb materials, 2005-2007
	P23. Director al proiectului A.v. Humboldt – Institutspartnershaft: VIRTUAL-SYDECOM DISTRIBUTED INTERNET- BASED ADVANCED METHODS IN SUPPORT OF SYSTEMS DESIGN, CONTROL AND MANAGEMENT IN ENGINEERING PRACTICE, 2007-2009
	P24. Director al proiectului ERA-NET MNT/7-014/2008/NACOPAN/Nanocompozite polimerice conductive cu structura predefinita si proprietati dielectrice si EMC dedicate ecranarii si realizarii de panouri absorbante pentru cladiri speciale, 2006-2008
	P25. Director al proiectului EuroNanoMed, nr. 4-002/2012: Terapie hipertermo-chemoterapica combinata pentru controlul tumorilor hepatice, bazata pe activarea cu microunde a unor nanostructuri functionalizate imobilizate subendotelial, 2012-2014
	P26. Director al proiectului ERANET, COFUND-MANUNET, nr. 22/2018, Sistem de sortare a deșeurilor de constructii si demolari (DCD) bazat pe robotică avansată STEWART, 2018-
	P27. Director al proiectului HarvEnPiez, 50/2016, Innovative nano-materials and architectures for integrated piezoelectric energy harvesting applications, 2016-2019
	P28. Membru în echipa de implementare a proiectului *'Transfer de cunoștințe privind realizarea de noi metode de diagnosticare a panourilor din parcuri fotovoltaice'*, Programul Operaţional Competitivitate, Contract subsidiar nr. 126/D10/2022, My SMIS 105567,
	P29. Membru în echipa de implementare a proiectului proiect *'Analize Fizico-Chimice, Materiale Nanostructurate Si Dispozitive Pentru Aplicatii In Domeniul Farmaceutic Si Medical Din Romania'* – AMD-FARMA-MED-RO, Programul Operaţional Competitivitate, Contract subsidiar nr. 62/13.04.2022, My SMIS 105725, durată 11 luni, buget 448.605 lei
	P30. Director al proiectului *'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 Operaţional Competitivitate, Contract nr. 70/221_ap2/14.08.2020, My SMIS 130052, durată 27 luni, buget 4.474.125 lei,
	P31. Director al proiectului *'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,
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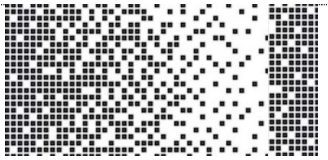
	P33 Director al proiectului '*Parteneriate pentru transfer de cunoștințe în domeniul materialelor polimere folosite în ingineria biomedicală'*, Programul Operaţional Competitivitate, Contract subsidiar nr. 8733/05.12.2019 - 659/06.12.2019,
	P34. Director al proiectului *'Dispozitive flexibile și elastice 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,
	P35. Director al proiectului . Materiale multifunctionale inteligente pentru aplicatii de inalta tehnologie, Programul Operaţional Competitivitate, Contract subsidiar nr. 370/20.02.2019, My SMIS 105726, durată 24 luni, buget 880.000 lei

	P36. **Director** al proiectului *Reciclarea avansata integrata a deseurilor combinate inseparabile de mase plastice si hartie, nereciclabile prin tehnologiile actuale,* Programul Operaţional Competitivitate, Contract subsidiar nr. 366/11.09.2017 - 15351/13.09.2017, My SMIS 105581, durată 24 luni, buget 900.000 lei
	P37. Membru în echipa de implementare a proiectului '*Cercetare-dezvoltare de materiale compozite inovative nanostructurate, activabile in camp de radiofrecventa si de microunde, pentru tehnologii reversibile de asamblare cu aplicatii intersectoriale'*, Programul Operaţional Competitivitate, Contract nr. 119/16.09.2016, ID P_37_757, My SMIS 104089,
	P38. Director al proiectului Realizarea inovativă de produse compozite termoplastice cu proprietăţi superioare de ecranare electromagnetică prin reciclarea integrată a deşeurilor electronice, (RECEMAT), Programul Operaţional Sectorial Creşterea Competitivităţii Economice, Axa Prioritară 2 – Competitivitate prin CDI, Contract nr. 460/03.04.2013, ID
	P39. **Membru în echipa de implementare** 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,
	P40. Director al proiectului FEVAL, 308E/19-08.2011– *"Dezvoltarea de panouri compozite izolatoare pe bază de deşeuri de fulgi/pene, pulbere de lemn şi plastic reciclat pentru clădiri ecologice tip „green building concept"*- finanţat prin Programul EUREKA



Data: 10.01.2025

Prof. dr.ing. Romeo Ciobanu

Conf.dr.ing. **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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

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

1. **C. Damian**, M. Ilinca, *Lucrări practice de programarea calculatoarelor. Limbajul C – aplicații*, ISBN 978-606-687-290-4, Editura Tehnopress, Iași, 2016 1
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3. G. Chiriac, R. Ilinca, **C. Damian**, T. Dumitriu, *Instrumente informatice fundamentale pentru ingineri*, Editura Tehnopress, Iasi, ISBN 978-606-687-070-2, 2014
4. **C. Damian**, Tehnici de procesare numerică a semnalelor în instrumentaţie, Editura Politehnium, Iaşi, ISBN: 978-973-621-320-5, 2011

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

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K. Contracte de cercetare/granturi.

1. Cercetari privind tehnicile de masurare cu procesare numerica a semnalului, PN II TD, 59/2007, 2007-2009, 3 ani, director proiect
2. 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

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4. Sistem complex de monitorizare a alunecarilor de teren utilizând traductoare bazate pe noi materiale şi tehnologii, PN II Parteneriate, 63/2012, 2012-2016, 5 ani, membru în echipa de cercetare
5. 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
6. 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
7. 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
8. Remote instrumentation in next-generation grids, CEEX, 132/2007, 2007-2008, 2 ani, membru în echipa de cercetare
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 electomagneice in domeniul ghz, CEEX, 202/2006, 2006-2008, 3 ani, membru în echipa de cercetare
10. Ecrane pentru constructii speciale bazate pe structuri chiral-fagure, CEEX, 46/2006, 2006-2008, 3 ani, membru în echipa de cercetare
11. 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
12. Nanofire de oxizi metalici semiconductori magnetici diluati, Colborative CEEX, 1/2006, 2007-2008, 2 ani, membru în echipa de cercetare
13. Electrospining de inalta eficienta, Colborative PN II, 159/2012, 2012-2016, 5 ani, membru în echipa de cercetare
14. 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
15. Fotodetectori bazati pe nanofire multisegment, Colborative PN II, 11-060/2007, 2008-2010, 3 ani, membru în echipa de cercetare
16. Senzori bazati pe elemente de detectie nanometrice pentru aplicatii în nano-medicina, Colborative PN II, 12-109/2008, 2009-2011, 3 ani, membru în echipa de cercetare
17. Microsenzori acustici pe baza de nanofire magnetostrictive pentru aplicatii medicale, Colborative PN II, 14-114/2008, 2011-2011, 1 an, membru în echipa de cercetare
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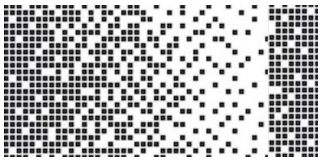
19. Microtraductoare cu elemente sensibile bazate pe nanofire magnetice, Colborative CEEX, 75-157/2008, 2009-2011, 3 ani, membru în echipa de cercetare
20. Nanofire multistrat cu structura de tip valva de spin. Proprietati de magnetorezistenta gigant., CNCSIS, 21/2005, 2006-2007, 2 ani, membru în echipa de cercetare
21. 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, distincţii.

M. ***Alte realizări semnificative.***

Data: 17.20.2025

Conf. dr. ing. inf. Catalin Damian



Asist. univ. drd. DOBOȘ Ioan-Marian

A. ***Teza de doctorat (în curs...)***

- Cercetări privind mașinile electrice cu topologii neconvenționale și flexibilitate funcțională ridicată.

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)***

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**).

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J. ***Invenții***

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

L. ***Premii, distincții***

M. ***Alte realizări***

Participare la Simpozionul Studențesc Național ELSTUDIS 2024 (ediția a III-a), septembrie 2024, Iași, România. Lucrarea: „Impactul implementării tehnicii de înclinare asupra unui generator sincron utilizat în producerea energiei verzi”.

Data,

Asist. univ. drd. Doboș Ioan-Marian

12.01.2026

Prof.dr.ing. DONCIU Codrin

A. Teza de doctorat.
Studii teoretice şi experimentale asupra prelucrării numerice a semnalului metrologic

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.
Branzila M, Donciu C., Advances in Biomedical Sensing, Measurements, Instrumentation and Systems, Chapter: Distributed System Architecture Using a Prototype Web E-Nose, Springer Berlin Heidelberg, pp. 1-15, 2010, ISBN 978-3-642-05166-1

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).
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2. Donciu C. Ardeleanu A., Sisteme video de monitorizare. Curs, Editura PIM, 2014, ISBN:978-606-13-2203-9, 124 pag
3. Donciu C., Temneanu M., Măsurăm împreună cu Codrin Donciu și Marinel Temneanu, Editura PIM, 2014, ISBN: 978-606-13-2207-7, 160 pag
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10. Donciu C., Lunca E., Cretu M., Sisteme moderne de măsurare. Măsurări distribuite, Editura Politehnium Iaşi, 2005, ISBN: 973-621-105-3, 121 pag
11. Donciu C., Baraboi B., Sisteme expert de asigurare a calităţii totale în industria de materiale şi echipamente electrotehnice, capitolul: Metode de interpretare a informaţiilor provenite din zona de alias şi Tehnici de inteligenţă artificială în analiza gazelor, Editura Gh. Asachi Iaşi, 2002, ISBN 973-8292-29-8
12. Donciu C., Tendinţe novatoare în instrumentaţie şi măsurări electronice, capitolul: Metode extreme de interpretare a frecvenţei semnalelor în instrumentaţia virtuală, Editura Sedcom Libris Iaşi, 2001, ISBN 973-8028-76-0

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

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

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

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66. Baraboi B., Cretu M., Fosalau C., Donciu C., Gas Analysis System Based on Artificial Neural Networks, 11th IMEKO TC4 Symposium – Trends in Electrical Measurement and Instrumentation, Lisbon, Portugal, pp. 380-383, 13-14 September 2001;

67. Fosalau C., Cretu M., Postolache O., Donciu C., Baraboi B., A Virtual Instrument for Real Systems Identification and Modeling, 11th IMEKO TC4 Symposium – Trends in Electrical Measurement and Instrumentation, Lisbon, Portugal, pp. 83-86, 13-14 September 2001;

68. Donciu C., Baraboi B., Schreiner C., Cretu M., Angular Displacement Measurement System for Electromotion Applications, 4th International Symposium on Advanced Electromechanical Motion Systems (Electromotion 2001), Bologna Italia, vol. 1, pp. 165-168, 2001;

69. Schreiner C., Donciu C., Ciobanu R., Baraboi B., Test Bench for Linear Manipulators Using Virtual Instrumentation, 4th International Symposium on Advanced Electromechanical Motion Systems (Electromotion 2001), Bologna Italia, vol. 1, pp.195-197, 19-20 June 2001;

70. Donciu C., Cretu M., Fosalau C., Communication in Virtual Instrumentation, Proceedings of 2nd International Conference on the Management of Technological Changes, Iasi, Romania, pp. 69-74, 25-27 October 2001;

J. Invenţii.

K. Contracte de cercetare/granturi - director de proiect

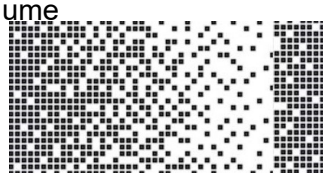
1. PED, contract 213PED/2017, Sistem OFDM bazat pe utilizarea FFT cu argument neintreg, 2017-2018, 475.000 lei
2. ERA NET CrossTexNet, contract 7_071_2012, Innovative technology for multilayer EMI shields based on spatial fabric (3DShields), 2012-2014, 405.000 RON
3. ERA NET CrossTexNet, contract 7_058_2012, Core conductive fibres based ESD protective garments (ESDGarm), 2012-2014, 343.200 RON
4. PN2 CNMP – Parteneriate, contract 251/2014, Mini-patern-urile, soluția coordonării video a procesului de confecţionare a produselor textile, 2014-2016, 1.333.700 RON
5. PN2 CNMP – Parteneriate, contract 260/2014, Ecrane electromagnetice spațiale bazate pe funcționalizare diferenţiată cu nano/micro particule, 2014-2016, 1.370.000 RON
6. PN2 – Parteneriate, contract 179_PCCA_2012, Haine ESD realizate din fibre cu miez conductor tricotate bistrat (GarmESD), 2012-2016, 1.078.000 RON
7. P6 PN2 CNMP – Parteneriate, contract 72-173/2008,Sistem video automatizat cu grad ridicat de interschimbabilitate pentru etalonare, metrologică a echipamentelor de măsurare, 2008-2011, 1.495.000 RON
8. Grant CEEX Modulul I – INFOSOC, contract 137/2006, Sistem informatic de instruire interactivă bazat pe algoritmi multitask de mare viteză dezvoltat pe platformă reconfigurabilă pentru aplicaţii de tip laborator virtual, 2006-2008, 880.000 RON
9. Grant CEEX Modulul I – AGRAL, contract 51/2006, Sistem inteligent de irigare de precizie implementabil pe structurile automate cu deplasare circulară sau liniară, 2006-2008, 1.010.000 lei
10. Grant CEEX Modulul III – CNMP, contract 194/2006, Dezvoltarea parteneriatelor C/D in vederea promovării de proiecte europene in domeniul video-inspecţiei inteligente a materialelor textile, 2006-2008, 180.000 RON
11. Grant AT anul 2004, tema 81, cod CNCSIS 330, contract 33371/2004, Sistem de măsurare distribuita dezvoltat prin metode de instrumentaţie virtuala
12. Grant AT anul 2003, tema 57, cod CNCSIS 330, contract nr. 33557/2003, Sistem de măsurare distribuita dezvoltat prin metode de instrumentaţie virtuala

L. Premii, distincţii.

M. Alte realizări semnificative.

Data: 3.12.2025

Nume, prenume
Donciu Codrin



Asist. dr. ing. GABOR GEORGEL

A. Teza de doctorat.

1. ”Contribuţii prinvind îmbunătăţirea comuncațiilor 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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

-

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

-

D. Cărţi (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 Universităţii Tehnice "Gheorghe Asachi" din Iaşi 2024

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

-

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

63. C. Nițucă, A. Dragomir, **G. Gabor,** G. Chiriac, *Simulated thermal response of a battery pack used by electric twowheelers*, Thermal Science, International Scientific Journal, https://doi.org/10.2298/TSCI250724194N, FI (2024) 1,1, Q4.
64. Niţucă, C., CHIRIAC, G., **Gabor, G.**, Nucă, I., Cazac, V., & Burduniuc, M. (2021). *GEOMETRY DESIGN AND ANALYSIS OF AN ELECTRIC BUS FOR THE INTERIOR THER-MAL MODELLING.* Journal of Energy Technology, 14(2), 47-55, indexată database INSPEC
65. **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.
66. 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 1
67. **Georgel Gabor,** Gheorghe Livinț, ”*Solution for pumps control in irrigations system using S7-1200 PLC*”, Conferința Națională de Acționări Electrice, Timișoara, 2022, indexata NNALS of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XX [2022] | Fascicule 3 [August], indexată Index Copernicus

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

-

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

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 IEEExplore.

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 IEEExplore.
3. G. CHIRIAC, D. -D. Lucache, C. Niţucă 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, indexatăIEEExplore.
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 IEEExplore.
6. Petru Valentin Roşu, 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 IEEExplore.
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 IEEExplore.
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 IEEExplore.
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 IEEExplore.
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 IEEExplore.
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 IEEExplore.
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 IEEExplore.
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. Inveţii.

K. Contracte de cercetare.

22. **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 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
23. **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.
24. **Membru proiect de inovare - PROOF of CONCEPT** competiţie organizată în cadrul proiectului TRANSTEH. Proiect: *INTELLIFT: Mini-lift inteligent modular, cu utilizări multiple*, Director de proiect: DORIN-DUMITRU LUCACHE, 2020
25. **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
26. **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.
27. **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 Iaşi, România Partener 1: Universitatea Tehnică a Moldovei din Chişinău, 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, distincţii.

M. Alte realizări semnificative.

-

Data: 1. 11.2025

asist.dr.ing. Gabor Georgel

Asist.drd.ing. GRIGORAȘ Dimitri

A. Teza de doctorat.
   a. Cercetări privind convertoarele statice de tip cc-cc cu utilizare în aplicații criogenice (în lucru)

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.
   a. 0

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.
   a. 0

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.
   a. 0

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.
   a. 0

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.
   a. 0

G. Lucrări ştiinţifice publicate în reviste din străinătate.
   a. High Junction Temperature Influence on Switching Dynamics of SiC MOSFETS in Comparison with the Threshold Model, Sielmen 2025, Grigoras Dimitri, Panaite Stefan-Marius

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.
   a. 0

I. Lucrări ştiinţifice publicate în volumele conferinţelor.
   a. High Junction Temperature Influence on Switching Dynamics of SiC MOSFETS in Comparison with the Threshold Model, Sielmen 2025, Grigoras Dimitri, Panaite Stefan-Marius

J. Invenții.

K. Contracte de cercetare. 1

L. Premii, distincții.

   a. 0

M. Alte realizări semnificative.
   a. 0

24.11.2025 drd. Ing Grigoraș Dimitri

Prof.dr.ing. HABA M. Cristian-Győző

Prof.dr.ing. HABA Cristian Gyozo

1º Teza de doctorat (T1, T2)

T1. Contribuţii la sinteza structurilor numerice de comandă. Teză de doctorat. Universitatea Tehnică “Gheorghe Asachi” din Iaşi, 1999.

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

Ca Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)

Ca1, 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.

Ca2, 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.

Ca3, 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.

Ca4, 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.

Ca5 C.G.Haba, L.Breniuc, *Proiectarea aplicaţiilor în timp real*, Casa de Editură Venus, Iași, ISBN978-973-756-030-8, 250 pg (44 rd/pag) , 2006

Ca6 **C.G.Haba**, *Sisteme de comandă a maşinilor electrice*, Ed.Gh.Asachi, Iaşi, ISBN 973-8292-65-4, 240 pg (44 rd/pag) , 2002

…

I Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)

I1 C.G.Haba *Programarea aplicațiilor de timp real. Îndrumar de laborator*, Editura Politehnium, Iași, ISBN978-973-621-431-8,164 pg (40rd/pag), 2014.

I2 C.G.Haba, *Tehnologia informației pentru proiectarea produselor și serviciilor. Îndrumar de proiectare*, format electronic, http://iota.ee.tuiasi.ro/~cghaba/docs/TIPPS/TIPPS%20Indrumar%20proiect.pdf, 34 pg, 2014

I3 C.G.Haba, *Limbaje moderne de descriere a structurilor hardware*. *Îndrumar de laborator*, format electronic, http://iota.ee.tuiasi.ro/~cghaba/docs/LMDSH/LMDSH%20Indrumar%20de%20laborator.pdf, 50 pg, 2012

I4 C.G.Haba *Automate programabile. Îndrumar de laborator*, format electronic, http://iota.ee.tuiasi.ro/~cghaba/docs/AP/AP%20Indrumar%20de%20laborator.pdf, 96 pg, 2012

I5. C.G.Haba, *Tehnologia informației pentru proiectarea produselor și serviciilor*, *Îndrumar de laborator*, format electronic, http://iota.ee.tuiasi.ro/~cghaba/docs/TIPPS/TIPPS%20Indrumar%20de%20laborator.pdf, 32 pg, 2011

I6 **C.G.Haba**, *Sisteme programabile pentru maşini electrice*, Îndrumar de laborator, format electronic, 80 pagini (http://www.eth.ieeia.tuiasi.ro/wp-content/uploads/2020/06/Laboratoar_SPME_2007-1.pdf)

I7 C.Domnişoru, **C.G.Haba**, *Lucrări practice de programare*, Universitatea Tehnică Gh.Asachi Iaşi., 200 pg (contrib. candid. 50%, 36 rd/pg), 1988

D Sisteme de laborator funcţionale

D1 Dotare laborator. Sistem de dezvoltare cu circuite programabile ZedBoard., Donatie Xilinx Inc., Valoare 293 USD, 2013

D2 Dotare laborator. Software de proiectare cu circuite integrate programabile Xilinx Vivado, Donatie Xilinx Inc.,Valoare 1099 USD, 2013

D3 Lucrări de laborator pentru disciplina Limbaje moderne de descriere a structurilor hardware cu simulare pe calculator folosind pachetul softare Xilinx Foundation (7 lucrări), 2009.

D4 Dotare laborator. Software proiectare cu circuite integrate programabile Xilinx Foundation, Xilinx Embedded Develpment Kit, Xilinx System Generator. Donatie Xilinx Inc., Valoare 1244 USD, 2009

D5 Lucrări de laborator pentru disciplina Programarea aplicațiilor de timp real folosind platforma experimentală Softec HCS12 cu microcontroler Freescale MC9S12C32 și sistemul de operare Micrium uCOS II (7 lucrări) 2008

D6 Dotare laborator: Calculator Pentium IV, 15 buc., Donatie Siemens Automotive Iasi, Valoare: 1500 EUR, 2008

D7 Proiectare și realizare și dotare laborator cu module de extensie cu senzori, circuite de comunicație CAN și afișor LCD pentru lucrările de laborator pentru disciplinele Programarea aplicațiilor de timp real și Microprocesoare şi microsisteme 12 buc, 2008

D8 Dotare laborator: Platforma pentru studiul aplicaţiilor de timp real bazate pe microcontrolerul Freescale MC9S12C32, 12 buc, 2008

D9 Lucrare de laborator cu stand experimental pentru controlul unui motor asincron alimentat de la invertor Mitsubishi FR-500 folosind un automat Mitsubishi Alpha 2, 2008

D10 Dotare laborator: Sistem de dezvoltare cu circuite programabile AVNET Spartan 3 Starter Kit. 5 buc. Valoare: 154 EUR, 2006

D11 Dotare laborator: Platforma pentru studiul aplicațiilor de timp real bazate pe microcontrolerul PIC18F450, 2005

D12 Dotare laborator: Sistem de dezvoltare cu microcontrolere PICmicro: sisteme de dezvoltare PIC DEM 2 şi PICkit 1, sistem de depanare in sistem MPLAB ICD2. Valoare 250 EUR, 2005

D13 Dotare laborator: Platforma pentru studiul comenzii motorului pas cu pas

D14 Dotare laborator: Automat programabil Mitsubishi Alpha

D11. Dotare laborator: Automat programabil Mitsubishi Alpha 2

D15 Dotare laborator: Invertor comandat Mitshubishi FR-500

D16 Dotare laborator: Automat programabil Mitsubishi FX 1S

1

W Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.

W1 C.G.Haba, *Proiectarea aplicaţiilor de timp real*, Suport de curs în format electronic, 474 slide-uri (aprox 93 pg) (http://iota.ee.tuiasi.ro/~cghaba/PATR/PATRNoteCurs/PATRNoteCurs.pdf)

W2 C.G.Haba, *Limbaje moderne pentru descrierea structurilor hardware*, Suport de curs format electronic, 592 slide-uri (aprox 112 pg) (http://iota.ee.tuiasi.ro/~cghaba/LMDSH/LMDSHNoteCurs/LMDSHNoteCurs.pdf)

W3 C.G.Haba *Utilizarea TIC în procesul educațional. Distribuirea și accesarea materialelor online. Blended & e-learning. Exemple de utilizare practică,* Suport de curs pentru proiectul DidaTec format electronic, 52 slide-uri (http://iota.ee.tuiasi.ro/~cghaba/DidaTec/Cap2.3_Iasi_prezentare.pdf), 2011

W4 C.G.Haba *Sisteme programabile pentru maşini electrice*, format electronic, 468 slide-uri (aprox 93 pg) http://www.ethgen.ee.tuiasi.ro) (http://iota.ee.tuiasi.ro/~cghaba/SPME/spmeNotecurs.htm)

W5 C.G.Haba *Tehnologiile informatice pentru proiectarea produselor și serviciilor*, Suport de curs în format electronic, 469 slide-uri (aprox. 60 pg) (http://iota.ee.tuiasi.ro/~cghaba/TIPPS/TIPPSNoteCurs/TIPPSNoteCurs.pdf)

W6 C.G.Haba *Automate programabile*, suport de curs în format electronic, 673 slide-uri (aprox. 70 pg) (http://iota.ee.tuiasi.ro/~cghaba/AP/APNoteCurs/APNoteCurs.pdf)

W7 Tutorial: *Utilizarea mediului de dezvoltare CodeWorrior*. Prezentare in format FLASH (http://iota.ee.tuiasi.ro/~cghaba/PATR/TutorialePATR/Deschidere_proiect.swf) (la disciplina Programarea aplicațiilor de timp real)

W8 Tutorial: *Semafoare. Exemplu de simulare*. Prezentare in format FLASH (http://iota.ee.tuiasi.ro/~cghaba/PATR/TutorialePATR/Semafoare.swf) (la disciplina Programarea aplicațiilor de timp real)

W9 Tutorial: *Cozi de mesaje. Exemplu de simulare*. Prezentare in format FLASH (http://iota.ee.tuiasi.ro/~cghaba/PATR/TutorialePATR/cozi.swf) (la disciplina Programarea aplicațiilor de timp real)

W10 Set teste online pentru autoevaluare la disciplina Programarea aplicațiilor de timp real (http://iota.ee.tuiasi.ro/~cghaba/PATR/TestePATR/PATR%20Test%201r.htm)

W11 Tutorial in format FLASH pentru învăţarea scrierii programelor de aplicaţie pentru automatele Mitsubishi Alpha folosind programul Mitsubitshi ALVLS-EU (http://iota.ee.tuiasi.ro/~cghaba/AP/AlphaTutorial1.htm)

W12 *Automatul Mitsubishi Alpha 2*. Prezentare in format FLASH (http://iota.ee.tuiasi.ro/~cghaba/AP/Alpha2/Prima.swf)

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P Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională

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05.01.2025 **Prof.dr.ing. Cristian-Gyozo Haba**,

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59. C.Botan, **V.Horga**, F.Ostafi, *Energy – Time Dichotomy in the Optimal Control of the Electrical Drives*, 3rd IASME/WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development -EEESD '07, Agios Nikolaos, Crete Island, Greece, July 24-26, 2007, pp.541-547
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57. M.Albu, **V.Horga**, M.Raţoi, C.Boţan, *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
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54. **V.Horga**, D.D.Lucache, M.Răţoi, A.Simion, M.Albu, *Control of an Interior PM Synchronous Machine for Operating as Integrated Starter-Generator*, 3rd WSEAS International Conference on Dynamical Systems and Control - Control'07, Arcachon, France, October 13-15, 2007, pp. 194-199
53. D.D.Lucache, **V.Horga**, M.Răţoi, A.Simion, I.Damian, *Generating Regime Control of an Interior PM Synchronous Machine*, International Symposium on Electrical Engineering and Energy Converters - ELS 2007, Suceava, Romania, 20 - 21 September 2007, pp. 175-181
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47. C.Boţan, F.Ostafi, **V.Horga**, *Energetic Aspects Referring to Servo Drive Systems*, The 2006 IASME/WSEAS International Conference on Energy and Environmental Systems -EE'06- Chalkida, Evia Island, Greece, May 8-10, 2006, pp. 55-60
46. Gh.Livinţ, **V.Horga**, M.Albu, M.Răţoi, *Testing Possibilities of Control Structures for Hybrid Electric Vehicles*, 2nd WSEAS International Conference on Dynamical Systems and Control – CONTROL'06, Bucharest, Romania, October 16-17 2006, pp. 47-52
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44. A.Onea, **V.Horga**, M.Răţoi, *Indirect Vector Control of Induction Motor*, 6th WSEAS International Conference on Simulation, Modelling and Optimization - SMO '06, Lisbon, Portugal, September 22-24 2006, pp. 98-103
43. D.D.Lucache, **V.Horga**, M.Albu, M.Răţoi, *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, pp.5107-5112
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19. Simona Caba, **V.Horga**, Iulia Enache, *The Optimal Control of the Electric Drive System of a Rolling Mill*, 1st International Conference on Electromechanical Systems, Chişinău, Republica Moldova, 16-18 October l997, vol.1, pp.66-69
18. M.Albu, Gh.Băluţă, S.Caba, **V.Horga**, *Direct Electrical Drive Systems in Low Speeds Functioning*, 1st International Conference on Electromechanical Systems, Chişinău, Republica Moldova, 16-18 October l997, vol.1, pp.74-77
17. I.Graur, **V.Horga**, Gh.Savitescu, A.Graur, *Mathematical Modeling of Induction Motors Drive Conveyer*, 1st International Conference on Electromechanical Systems, Chişinău, Republica Moldova, 16-18 October l997, vol.1, pp.78-81
16. **V.Horga**, I.Graur, M.Albu, A.Graur, *Mathematical Modeling and Numerical Simulation of an Inverter-Fed Self-Controlled Synchronous Motor Using Space-Phasor Theory*, 1st International Conference on Electromechanical Systems, Chişinău, Republica Moldova, 16-18 October l997, vol.1, pp.82-85

15. M. Răţoi, A.Anghel, Gh.Băluţă, **V.Horga**, *DSP Control of Induction Motor Using TMS320C26*, 1st International Conference on Electromechanical Systems, Chişinău, Republica Moldova, 16-18 October l997, vol.1, pp.102-103
14. I.Graur, D.D.Lucache, Gr.Taşcă, **V.Horga**, *Numerical Simulation of Stabilized Running State of the Electric Drives Systems with Machine Tools*, 3rd International Conference on Development and Application Systems, Suceava, Romania, 23-25 May l996, vol.8, pp. 67-74
13. I.Graur, D.D.Lucache, Gr.Taşcă, **V.Horga**, *Mathematical Model for the Calculus of Stabilized Running State of Some Electrical Drive Systems with Tool Machines*, 3rd International Conference on Development and Application Systems, Suceava, Romania, 23-25 May l996, vol.8, pp.75-80
12. I.Graur, **V.Horga**, R.Bojoi, *Determination of Electromagnetic Torque Produced by Self-Controlled Salient Pole Synchronous Motor*, Simpozionul „85 ani de la înfiinţarea Şcolii de Electricitate Industrială", Iaşi, 2-4 noiembrie 1995, pp. 745-753
11. **V.Horga**, *Simularea regimului tranzitoriu electromagnetic al motorului asincron cu ajutorul modelului ortogonal general*, Conferinţa tehnico-ştiinţifică jubiliară „30 ani de la înfiinţarea Universităţii Tehnice a Moldovei", Chişinău, Republica Moldova, 2-3 iunie 1994, pp.7-8
10. Simona Caba, **V.Horga**, *Protecţia de distanţă a liniilor electrice cu ajutorul calculatorului de proces*, Conferinţa tehnico-ştiinţifică jubiliară „30 ani de la înfiinţarea Universităţii Tehnice a Moldovei", Chişinău, Republica Moldova, 2-3 iunie 1994, pp.5-6
9. Gr.Taşcă, I.Graur, D.D.Lucache, **V.Horga**, *Experimental Research of the Stabilizes State of Electrical Drive System with Equipments for Corn Threshing*, *Part I- The Work Method*, 2nd International Conference on Development and Application Systems, Suceava, Romania, 26-28 May l994, vol.5, pp.107-113
8. Gr.Taşcă, I.Graur, D.D.Lucache, **V.Horga**, *Experimental Research of the Stabilizes State of Electrical Drive System with Equipments for Corn Threshing, Part II- The Electrical Motor's Verify*, 2nd International Conference on Development and Application Systems, Suceava, Romania, 26-28 May l994, vol.5, pp.273-276
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6. I.Graur,**V.Horga**, *Vector Control of Induction Motors Drives. Numerical Simulation*, 2nd International Conference on Development and Application Systems, Suceava, Romania, 26-28 May 1994, vol.5, pp.183-188
5. M.Răţoi,**V.Horga**, R.Bojoi, *Numerical Control of PWM Inverters*, 2nd International Conference on Development and Application Systems, Suceava, Romania, 26-28 May l994, vol.5, pp.103-106
4. M.Răţoi, R.Bojoi, **V.Horga**, M.Papuc, *Universal Controller for Line Commuted Power Converter*, 2nd International Conference on Development and Application Systems, Suceava, Romania, 26-28 May l994, vol.5, pp.99-102
3. Gr.Taşca, I.Graur, **V.Horga**, *Modelul matematic pentru calculul regimului de funcţionare stabilizat al unor sisteme de acţionare electrică (S.A.E.) cu utilaje pentru tocat furaje*, Simpozionul „Ştiinţa şi Studiile Superioare Agricole. Realizări şi perspective", Universitatea Agrara a Moldovei, Chişinău, Republica Moldova, 19-21 octombrie 1993
2. Gh.Băluţă, M.Albu, M.Răţoi, **V.Horga**, *Control System with Programmable Controller for Self Leveling Elevator*, 1st International Conference on Development and Application Systems, Suceava, Romania, 28-30 May l992, vol.1, pp.153-156
1. Gh.Băluţă, M.Răţoi, M. Albu, **V.Horga**, *Drives System Control with the Wound Rotor Induction Motor Using Programmable Logic*, 1st International Conference on Development and Application Systems, Suceava, Romania, 28-30 May l992, vol.1, pp.173-176

J. Invenţii

5**. V.Horga**, R. Mocanu, Th. Knopik,P.-D. Silvestru, *Online Self-Calibrating Techniques for the Analogue Magnetic Sinusoidal Position Transducer*, Cod Brevet 2025E05749 RO, 28.10.2025

4. C. Dosoftei, T.Popovici, **V.Horga**, I. Doroftei, V. Iolea, A. Ciobanu, *Robot mobil omnidirectional autonom*, Cod Brevet RO 135580 B1, Oficiul de stat pentru invenții și mărci, BOPI/Secțiunea Invenții/ 12/2023, 29.12.2023

3. **V.Horga**, A. Axinte, *Unified Discrete-Time Complex Vector Current Controller for AC Machine Drives*, Cod Brevet 2019E01073 RO/07.02.2019 / WO 2023/098960 A1 – granted at 08.06.2023

2. **V.Horga**, M. Bîrlădeanu, *Unified Discrete-Time Position Observer for AC Machine Drives*, Cod Brevet 2021E07267 RO, 19.11.2021

1. I. Doroftei, **V. Horga**, M. Rățoi, Vehicul cu patru roți omnidirecționale, Cod Brevet RO 128285 B1, Oficiul de stat pentru invenții și mărci, BOPI/Secțiunea Invenții, 7/2019 - 30.07.2019

K. Contracte de cercetare/granturi

Tema 26. Dezvoltarea unui sistem logistic inteligent utilizând roboți mobili omnidirecționali autonomi

Proiect de transfer la operatorul economic, nr. 19/2020

Perioada: 01.06.2020-31.05.2022

Responsabil temă: şef lucr. dr.ing. Constantin Cătălin Dosoftei

Tema 25. 10 MW Ring Motor

Mechanical & Aerospace Engineering. Centre for Automotive Research. Ohio State University

Sponsor. NASA Headquarters

Project # 60045048/GRT00035449/NNX14AL87A

Perioada: 04.08.2014 – 03.08.2019

Valoare: 2.000.000$

Responsabil temă: Cercetator principal Codrin Grue Catemir

Tema 24. OSU Next Generation Traction Drive

Mechanical & Aerospace Engineering. Centre for Automotive Research. Ohio State University

Sponsor. Cummins Inc

Project # 600622297/GRT00049037 & 60062298/GRT00049038

Perioada: 01.07.2017 – 31.12.2018

Valoare: 1.500.000$

Responsabil temă: Cercetator principal Codrin Grue Cantemir

Tema 23. Sisteme performante de acţionare a vehiculelor hibride şi electrice cu o maşină sincronă axială cu două rotoare, un stator şi un singur invertor .

PN-III-P3-3.1-PM-RO-MD-2016-0093

Perioada : 2016-2017 (18 luni)

Responsabil tema: Conf. dr.ing Sorin Ioan Deaconu 1

Responsabil partener: Conf.dr.ing. Vasile Horga

Tema 22. Dezvoltarea societăţii Venqo Engineering SRL prin cercetarea şi punerea în producţie a unui modul rapid de căpuire

POSCCE-II-D2.3-O2.3.1 - Cod SMIS: 1686/47393

Nr.559/03.09.2013

Perioada: 04.09.2013 – 03.02.2015

Valoare: 947.865,45 RON

Responsabil temă: dr.fiz. Tudose Ovidiu-Gelu

Tema 21. Dezvoltarea societăţii Venqo Engineering SRL prin dezvoltarea şi lansarea pe piaţă a unor servicii de inginerie şi proiectare în domeniul vehiculelor electrice.

POSCCE-II-D2.3-O2.3.3 - Cod SMIS: 1439/42479

Nr.474/30.05.2013

Perioada: 31.05.2013 - 30.06.2015

Valoare: 4.220.776,85 RON

Responsabil temă: ing. Cocîrţă Thomas

Tema 20. Seismic Engineering Research Infrastructures for European Synergies (SERIES).

FP7 Research Infrastructures Integrating Activity, Combination of Collaborative Project and Coordination and Support Action, European Commission
Perioada: 2009-2013.
Responsabil tema: Prof. dr.ing Gabriela Atanasiu

Tema 19. Cercetări privind îmbunătăţirea performanţelor roţilor de tip mecanum, conceperea şi realizarea unui vehicul omnidirecţional

Idei –CNCSIS PN–II–ID–PCE–2007–1

Perioada: 2007-2010

Responsabil tema: Prof. dr.ing I.Doroftei

Tema 18. Tehnologii informatice de timp real pentru sistemele incorporate care asigură controlul lanţului de transmisie a puterii la autovehicule

Parteneriat – PNCDI 2

Perioada 2008-2009

Responsabil temă: Prof.dr.ing. C.Lazăr

Tema 17. Laborator virtual de acţionări electrice de mică putere cu utilizare de la distanţă prin Internet -LVAEMP-INTERNET

Cod CNCSIS 266-2006

Perioada 2006-2008

Responsabil temă: Prof.dr.ing. Gh.Băluţă

Tema 16. Noi tipuri de camere de ardere pulsatorie policarburante –PULSOCAM

Contract 281-2006 INCDT COMOTI Bucureşti

Perioada 2006-2008

Responsabil tema: Prof. dr.ing Gh.Dumitraşcu

Tema 15. Reţele de distribuţie de curent continuu pentru aplicaţii industriale – DCNET

Cod CNCSIS 95-2006 – Consorţiu

Perioada 2006-2008

Responsabil tema: Prof. dr.ing Mihaela Albu

Facultatea de Inginerie Electrică – Bucureşti

Tema 14. Algoritmi evoluaţi de control în timp real pentru optimizarea vehiculelor hibride

Cod MEC 8222/2006 –(X2C28- AMTRANS)

Perioada 2006-2008

Responsabil temă: Prof.dr.ing. Gh.Livinţ

Tema 13. Metode avansate de control pentru eficientizarea producerii şi utilizării energiei

Cod MEC PC-D05-PT17-154/2006,

Perioada 2005-2008

Responsabil temă: Prof.dr.ing. C.Boţan

Tema 12. Sistem inteligent alternator-demaror-integrat pentru autpvehicule

Cod CNCSIS 530/2005

Perioada 2005-2006

Responsabil temă: Conf.dr.ing. D.D.Lucache

Tema 11. Cercetări privind utilizarea inteligenţei artificiale pentru controlul, comanda şi optimizarea regimurilor de funcţionare ale vehiculelor hibride

Cod CNCSIS 528/2005

Perioada 2005-2006

Responsabil temă: Prof.dr.ing. Gh.Livinţ

Tema 10. Structuri avansate de conducere a acţionărilor electrice cu motoare pas cu pas

Cod CNCSIS 464/2004

Perioada 2004-2005

Responsabil temă: Prof.dr.ing. Gh.Băluţă

Tema 9. Metode moderne de control aplicate sistemelor de acţionare electrică

Cod CNCSIS 471/2004

Perioada 2004-2006

Responsabil temă: Prof.dr.ing. C.Boţan

Tema 8. Cercetări privind optimizarea structural-cinematică, realizarea şi controlul unor roboţi mobili în concepţie modulară, cu aplicaţii în educaţie

Cod CNCSIS 507/2004

Perioada 2004-2006

Responsabil temă: Prof.dr.ing. I.Doroftei

Tema 7. Cercetări privind construcţia, modelarea şi comanda unor lagăre magnetice axiale hibride cu performanţe superioare cu aplicaţie la sisteme inerţiale cu acumulare de energie

Cod CNCSIS 123/2002

Perioada 2002

Responsabil temă. Prof.dr.ing. Gh. Livinţ

Tema 6. Cercetări privind retehnologizarea echipamentelor de distribuit mixturi asfaltice, betoane şi agregate prin introducerea controlului automat al nivelului materialului şi al poziţiei grinzii finisoare

Cod CNCSIS 400/2001

Perioada 2001-2002

Responsabil tema: Prof.dr.ing. M.Nemescu

Tema 5. Tehnici avansate aplicate în controlul sistemelor de acţionare electrică

Cod CNCSIS 303/2001

Perioada 2001-2003

Responsabil temă: Prof.dr.ing. C.Boţan

Tema 4. Calculul câmpului, proiectarea şi experimentarea unor motoare sincrone de construcţie specială Cod CNCSIS 247/2001

Perioada 2001-2003

Responsabil temă: Prof.dr.ing. A.Simion

Tema 3. Studiul câmpului, proiectarea şi realizarea unor maşini electrice de construcţie speciala – SCAPREME

Contract nr. 6177/2000

Perioada 2000Responsabil temă: Prof.dr.ing. A. Simion

Tema 2. Sisteme evoluate de conducere a acţionărilor electrice

Cod CNCSU 244/1997

Perioada 1997-1999

Responsabil temă: Prof.dr.ing. C.Boţan

Tema 1. Cercetări privind noi posibilităţi de comandă cu şi fără traductor incremental (de poziţie) pentru motoarele pas cu pas

Cod CNCSU 662/1995

Perioada 1995-1996

Responsabil temă: Prof. dr. ing. M.P. Diaconescu

1

L. Premii, distincţii

2. C. Dosoftei, T.Popovici, V.Horga, I. Doroftei, V. Iolea, A. Ciobanu, Robot mobil omnidirectional autonom, Medalia de aur, UGAL Invent – Salonul Inovării și Cercetării, 9-10 Noiembrie 2023, Galați - România

1. I. Doroftei, V. Horga, M. Rățoi, Vehicul cu patru roți omnidirecționale, Medalia de aur, UGAL Invent – Salonul Inovării și Cercetării, 9-10 Noiembrie 2023, Galați - România

M. Alte realizări semnificative

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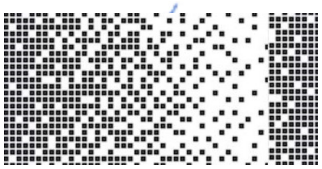
Data

28.10.2025

Semnătura



Conf.dr.ing. IRIMIA DĂNUȚ CONSTANTIN

A. Teza de doctorat
Irimia Danut Constantin, *Controlul și testarea experimentală a neuroprotezelor* (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.

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E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web
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P1. 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. Baciu, Daniel A. Sticea, Andrei I. Roman, Piseru Andrei.

P2. Proiect tip PNIII nr. 25PTE/2020, Mănuşi mecatronice textile inteligente pentru recuperarea mâinii la persoanele cu accident vascular cerebral, Danut Irimia – membru.

P3. SISTEME INTELIGENTE PENTRU MONITORIZAREA LA DISTANTA A PROCESELOR DE RECUPERARE BAZATE PE FES-ARMS – Proiect PN II Parteneriat 71-095/2007 – membru echipa (2007-2010)

P4. PRODUSE TEXTILE FUNCTIONALE PENTRU INCALZIRE SI ALTE APLICATII INTELIGENTE – Colaborare PN II Inovare, 317E/2012 – membru echipa. (2012-2015)

P5. AN INTELLIGENT HAPTIC ROBOT GLOVE FOR THE PATIENTS SUFFERING A CEREBROVASCULAR ACCIDENT – Colaborare PN II Parteneriat, 150/2012 – membru in echipa.

P6. MATERIALE TEXTILE INOVATIVE CU ELECTROZI INCORPORATI PENTRU RECUPERAREA PRIN STIMULARE ELECTRICA FUNCTIONALA A PERSOANELOR CU DIZABILITATI. Parteneriat PN II, 267/2014 – membru in echipa

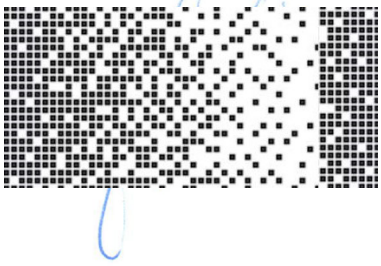
P7. TERAPEUT VIRTUAL PRIN FEEDBACK AUGUMENTAT PENTRU RECUPERAREA NEUROMOTORIE, Colaborare PNII Parteneriat, 1/2014, membru in echipa.

L. Premii, distincţii

M. Alte realizări semnificative

Data
2.12.2025

Semnătura



* Conform H.G. 1175/ 2006

Conf.dr.ing. **LIVADARU Leonard**

A. Teza de doctorat:
1. Cercetări asupra utilizării motoarelor asincrone bifazate în acționări electrice – *2003, Universitatea Tehnică Gheorghe Asachi din Iași, domeniul Inginerie Electrică, conducător: prof.dr.ing. Alecsandru Simion*

B. Cărţi (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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS)
1. **Leonard Livadaru,** Alecsandru Simion Masini asincrone bifazate, Ed. Junimea, 2003, 134 pag., ISBN 973-37-0880-1

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

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

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale
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
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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS

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1. A. Munteanu, B. Virlan, L. Livadaru, I. Nastas, I. Nacu and A. Simion, "Finite Element Analysis and Experimental Tests of a Series Hybrid Excitation Synchronous Machine," 2025 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2025, Timisoara, Romania, 2025, pp. 1-7, doi: 10.1109/OPTIM
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J. Invenţii

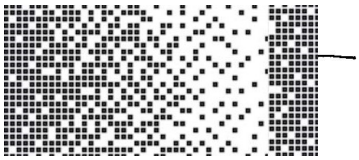
K. Contracte de cercetare/granturi

1. Cercetări privind ameliorarea performanţelor generatoarelor de energie electrică de pe autovehicule PN2 TD 83/2007 – membru
2. Modele matematice şi soluţii de proiectare integrată a maşinilor electrice în scopul utilizării raţionale a resurselor naturale şi artificial, CEEX 285/P3/2006 – partener P3 cu ICPE SA Bucureşti, Responsabil contract: Simion Al. - membru
3. Sistem inteligent alternator – demaror – integrat pentru autovehicule - Contract nr. 27637/2005, Tema 35, Cod CNCSIS: 530, Director : Lucache Dorin - membru

L. Premii, distincţii

M. Alte realizări semnificative

Data 30 Iunie 2025 Semnătura.



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Prof.dr.ing. Dumitru Dorin LUCACHE

A. Teza de doctorat.

Studiul unui lagăr magnetic axial în construcție hibridă cu aplicație la sistemele inerțiale cu acumulare de energie, Universitatea Tehnică "Gh. Asachi" Iaşi, Facultatea de Electrotehnică, Ordinul Ministrului Educaţiei Naţionale, nr. 4911 / 02.11.2001

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

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K. Contracte de cercetare.

1. “INTELLIFT: Modular intelligent mini-lift, with multiple uses”, founder CNFIS-FDI-2020-0465, TUIASI Grant intern POC20/2020, director
2. “Design-for-X of a powertrain for efficient and low-cost electric traction”, collaborative research grant, partially founded by ERASMUS-EDU-2022-EUR-UNIV, director

3. “AR Physics made for students - ARPhymedes” Erasmus+ #2020-1-SK01-KA201-078391, responsabil TUIASI
4. „Technology Trannsfer Network”, TEMPUS TecTNet, cod 544197-TEMPUS-1-2013-1-IT-TEMPUS-JPHES, responsabil TUIASI
5. Dezvoltarea unor noi neuroproteze şi tehnici de evaluare pentru persoanele cu handicap neuromotor datorat unei afecţiuni a sistemului nervos central, proiect cooperare bilaterală România-Slovenia, PNII-modul III, Valoare: 82710RON/2008, membru;
6. Sisteme încorporate de tip neuroproteză pentru recuperarea persoanelor cu handicap neuromotor – SINPHA, contract 11-068/2008 PN II-etapaII-15.11.2008, Valoare 272731 RON/2008, Director proiect: Conf.dr.ing. Marian Poboroniuc
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8. 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;
9. 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;
10. 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: Dorin Dumitru LUCACHE;
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12. Algoritmi evoluati de control in timp real pentru optimizarea vehiculelor electrice hibride, Contract CEEX nr. X2C28/2006, Valoare 89.000 RON, Valoare UTI: 44.300 RON/2006, Director proiect: Prof.dr.ing. Gheorghe LIVINŢ;
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15. Tehnici de control a protezelor bazate pe stimulare electrică funcţională a muşchilor în recuperarea pacienţilor cu handicap neuromotor datorat unei afecţiuni a sistemului nervos central, Contract A1/GR 164/19.05.2006, cod CNCSIS 530, Tema 62/2006, Valoare : 54000RON/2006, Director proiect: Marian Poboroniuc
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23. Calculul câmpului, proiectarea şi experimentarea unor motoare sincrone de construcţie specială, Contract 33557/2003, Cod CNCSIS 336/2003, Tema 37, Valoare: 72 mil.ROL/2003, Director proiect Prof.dr.ing. Alecsandru SIMION;
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32. Studii şi cercetări experimentale pentru raţionalizarea consumrilor de energie în secţia de Finisaj la S.C. Integrata S.A. Paşcani. Contract nr. 666/95-96. Beneficiar: S.C. Integrata Paşcani S.A., Valoare: 2,360 mil.ROL/1995, Responsabil contract: Şef lucr. Grigore TAŞCĂ ;
33. "Studii privind îmbunătăţirea platformelor seismice de 140 Tf şi 15 Tf, Contract INCERC nr. 1326/1991, INCERC – Filiala Iaşi, Resp. temă: ing. Ilie Soroceanu
34. "Sistem unificat de achiziţie, înregistrare si prelucrare a datelor experimentale si de corecţie pentru studiul comportării structurilor la solicitări statice si dinamice seismice", Contract INCERC nr. 1318/1991, INCERC – Filiala Iaşi ,Resp. temă: ing. Ilie Soroceanu
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L. Premii, distincţii.

Data,
28.11.2025

Dumitru Dorin LUCACHE

Conf. univ. dr. ing. 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

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2. **Eduard Luncă**, Bogdan Constantin Neagu, Silviu Vornicu, capitolul *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, pp. 795-821, ISBN 978-3-030-62190-2.
3. Ionel Pavel, Camelia Petrescu, Valeriu David, **Eduard Luncă**, capitolul *Estimation of the Spatial and Temporal Distribution of Magnetic Fields around Overhead PowerLines—A Case Study*, în volumul *Modeling and Simulation in Engineering, 2nd Edition* (editori: Camelia Petrescu, Valeriu David), Editura MDPI, Basel, 2023, pp. 199-213, ISBN 978-3-0365-8288-7 (Reprint).

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1. **Eduard Luncă**, Alexandru Sălceanu, *Zgomote și interferențe în instrumentație. Elemente de teorie*, Editura PIM, Iași, 2024, 114 pag., ISBN 978-606-13-8834-9.
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4. **Eduard Luncă**, *Compatibilitate electromagnetică. Teste și măsurări specifice*, Editura PIM, Iași, 2015, 168 pag., ISBN 978-606-13-2834-5.
5. **Eduard Luncă**, *Sisteme pentru măsurarea și monitorizarea poluării electromagnetice. Studii teoretice și experimentale*, Editura PIM, Iași, 2015, 126 pag., ISBN 978-606-13-2849-9.
6. Codrin Donciu, **Eduard Luncă**, Mihai Crețu, *Sisteme moderne de măsurare. Măsurări distribuite*, Editura Politehnium, Iași, 2005, 130 pag., ISBN 973-621-105-3.
7. Alexandru Sălceanu, **Eduard Luncă**, Oana Neacşu, Marius Păuleţ, Silviu Ursache, *Compatibilitate electromagnetică. Aplicații*, Editura PIM, Iaşi, 2015, 208 pag., ISBN 978-606-13-2812-3.
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E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web

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2. **Eduard Luncă**, *Măsurări în ecologie și biomedicină*, Suport de curs disponibil pe platforma Microsoft Teams, 75 pag. format academic
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5. **Eduard Luncă**, *Informatică aplicată I* – Suport de curs, http://www.demm.ee.tuiasi.ro/eduard-lunca/info1.html
6. **Eduard Luncă**, *Informatică aplicată II* – Suport de curs în limba engleză, http://www.demm.ee.tuiasi.ro/eduard-lunca/info2.html

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J. Invenții

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K. Contracte de cercetare/granturi

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2. Grant tip BD (pentru tineri doctoranzi), cod CNCSIS 7, cu tema *Cercetări privind sistemele de măsură, control şi 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, finanţat de Fondul Social European şi Guvernul României, Martie 2011 - Februarie 2013, 1000 euro/lună (**Responsabil temă**).

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8. *Ecrane electromagnetice spaţiale bazate pe funcţionalizare diferenţiată cu nano / micro-particule* (DifShield), PNII Parteneriate, Nr. 260/2014, 1370000 RON, 2014 – 2017, Responsabil Prof. Codrin Donciu (**Membru**).
9. *Reţea 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 şi tehnologii* (LANDSLIDE), PNII Parteneriate, Nr. 63/2012, 1147571 RON, 2012 – 2015, Director Prof. Cristian Zet (**Membru**).
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12. *Microsenzori acustici pe bază de nanofire magnetostrictive pentru aplicaţii medicale*, Colab. PNII Parteneriate, Nr. 12-114/2008, 80000 RON, 2011, Director Prof. Cristian Foşalău (**Membru**).
13. *Sistem pe bază de microfire magnetice pentru neutralizarea activării la distanţă a explozivilor prin intermediul telefonului*, Colab. PNII Parteneriate, Nr. 82-096/2008, 30000 RON, 2011, Director Prof. Cristian Foşalău (**Membru**).
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15. *Metodologie dielectrică nedistructivă neinvazivă comparativă de detectare rapidă a ingredientelor cu potenţial major de risc pentru sănătate din produsele alimentare*, PNII Parteneriate, Nr. 51-015/2007, 627691.01 RON, 2007 – 2010, Director Prof. Romeo Ciobanu (**Membru**).
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17. *Dezvoltarea conceptului de clădire generator-convertor de energie regenerabilă, cu autonomie energetică ridicată şi acumulare în infrastructură şi sol* (RENERGHOME), Colab. PNII Parteneriate, Nr. 21-066/2007, 90000 RON, 2008, Responsabil Prof. Alexandru Sălceanu (**Membru**).
18. *Susţinerea integrării cercetării româneşti în domeniul poluării electromagnetice în reţele, programe şi parteneriate europene de profil* (INT-€-EMP), CEEX, Nr. 226/2006, 154830 RON, 2006 – 2008, Director Prof. Alexandru Sălceanu (**Membru**).
19. *Metode şi tehnici magnetometrice pentru investigarea activităţii cardiace* (CARDIOMAG), Colab. CEEX, Nr. 136/2006, 100000 RON, 2008, Responsabil Prof. Alexandru Sălceanu (**Membru**)**.**

20. *Ecrane pentru construcţii 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 excelenţei româneşti, în vederea promovării de proiecte comune în domeniul materialelor avansate nanostructurate destinate ecranelor de protecţie la radiaţiile electromagnetice în domeniul GHz* (EPRM-Net), CEEX, Nr. 202/2006, 150000 RON, 2006 – 2008, Director Prof. Cristina Schreiner (**Membru**).
22. *Biocompozite obţinute prin reciclarea deşeurilor de PET şi utilizarea de derivaţi ligno-celulozici*, CEEX, Nr.79/2006, 720000 RON, 2006 – 2008, Director Prof. Romeo Ciobanu (**Membru**).
23. *Dezvoltarea capacităţii de integrare a României în cadrul programelor, platformelor şi reţelelor europene în domeniul obţinerii de biocompozite cu aplicaţii multisectoriale*, CEEX, Nr.179/2006, 130000 RON, 2006 – 2008, Director Prof. Romeo Ciobanu (**Membru**).
24. *Dezvoltarea capacităţii de integrare a României în cadrul programelor, platformelor şi reţelelor europene în domeniul sistemelor virtuale şi distribuite de design şi management al cercetării*, CEEX, Nr.188/2006, 110000 RON, 2006 – 2008, Director Prof. Cristina Schreiner (**Membru**).
25. *Dezvoltarea capacităţii de integrare a României în cadrul programelor, platformelor şi reţelelor europene în domeniul metodelor comparative neinvazive şi nedistructive de analiză a calităţii şi securităţii alimentelor*, CEEX, Nr.173/2006, 150000 RON, 2006 – 2008, Director Prof. Romeo Ciobanu (**Membru**).
26. *Sistem integrat de inspecţie video-inteligentă a materialelor textile dezvoltat prin metode virtuale de procesare a imaginii*, CEEX, 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*, CEEX, 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*, CEEX, Nr. 201/2006,137400 RON, 2006 – 2008, Director Prof. Marinel Temneanu (**Membru**).
29. *Crearea unui mecanism suport de determinare a indicatorilor ştiinţifici pentru evaluarea şi atestarea instituţiilor romaneşti de CDI, nu cele academice şi universitare, în perspectiva aderării la ERA,* Colab. CEEX, Nr. 06-8-66/2006, 160000 RON, 2006 – 2008, Responsabil Prof. Mihai Creţu (**Membru**).
30. *Racordarea principiilor de evaluare şi atestare a instituţiilor de CDI la criteriile ERA*, Colab. CEEX, Nr. 238/2006, 20000 RON, 2006-2008, Responsabil Prof. Mihai Creţu (**Membru**).
31. *Metode şi tehnici neinvazive cu microunde pentru detecţia timpurie a cancerului de sân* (CANCERDET), Colab. CEEX, Nr. 8/2005, 50000 RON, 2007, Responsabil Prof. Alexandru Sălceanu (**Membru**).
32. *Laborator pentru încercări de imunitate la descărcări electrostatice* (LIDES), CEEX, Nr. 187/2006, 299500 RON, 2006 – 2007, Director Prof. Alexandru Sălceanu (**Membru**).
33. *Sistem informatic virtual de instruire interactivă la distanţă în domeniul măsurărilor electrice*, Grant tip A, cod CNCSIS 443, 89096,4 RON, 2005 – 2007, Director Prof. Mihai Creţu (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 instrumentaţie 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 I - 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 I - 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, *Aplicaţii server-client în LabVIEW (I). Comunicaţia TCP-IP şi Remote Device Access*, Revista de Instrumentaţie Virtuală, nr. 1 (25), pp. 3-8, 2005.
2. **E. Lunca**, C. Donciu, M. Brinzila, A. Salceanu, *Aplicaţii server-client în LabVIEW (II). DataSocket şi VI Server*, Revista de Instrumentaţie 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 Instrumentaţie Virtuală, nr. 1 (25), pp. 21-24, 2005.
4. C. Donciu, **E. Lunca**, M. Brinzila, M. Cretu, *Utilizarea plăcii de sunet în măsurări de impedanţă în joasă frecvenţă*, Revista de Instrumentaţie 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 Instrumentaţie Virtuală, nr. 1 (25), pp. 9-12, 2005.
6. C. Donciu, M. Brinzila, **E. Lunca**, M. Cretu, *Utilizarea senzorului de temperatură şi umiditate relativă SHT11 în realizarea aplicaţiilor de tip laborator virtual*, Revista de Instrumentaţie Virtuală, nr. 2 (26), pp. 35-37, 2005.

2

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 *Interferenţe electromagnetice în sisteme electroenergetice, între modelare numerică şi validare experimentală*, organizată de Asociaţia IRE, în colaborare cu Universitatea Tehnică „Gheorghe Asachi" din Iaşi şi Universitatea Tehnică din Cluj-Napoca, Iaşi, 25 septembrie 2013.

Data, **1.12.2025**

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

Asist.drd.ing. Alexandru Mitocaru

A. Teza de doctorat.

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

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

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

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

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

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

- D. C. Irimia, **A. Mitocaru**, A. G. Baciu, 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
- **A. Mitocaru**, M. S. Poboroniuc, D. C. Irimia, A. G. Baciu, *Comparison Between Two Brain Computer Interface Systems Aiming to Control a Mobile Robot,* 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), October 06-08 2021, Iași, Romania
- 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
- M. S. Poboroniuc, D. C. Irimia, R. Ionașcu, A. I. Roman, **A. Mitocaru**, A. G. Baciu, *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
- **A. Mitocaru**, M. S. Poboroniuc, D. C. Irimia, S. Placintă, A.G. Baciu, *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
- 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
- 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

- M. S. Poboroniuc, A. I. Roman, R. Ionașcu, T. Piseru, A. Piseru, D. C. Irimia, A. G. Baciu, **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
- **A. Mitocaru**, M. S. Poboroniuc, A. G. Baciu, 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
- M. S. Poboroniuc, R. Ionașcu, A. I. Roman, A. Piseru, T. Piseru, D. C. Irimia, **A. Mitocaru**, A. G. Baciu, *Clinically tested mechatronic devices for hand rehabilitation*, The 15th Edition European Exhibition of Creativity and Innovation EUROINVENT, Mai 11-13 2024, Iași România
- **A. Mitocaru**, A. Buzamat, M. S. Poboroniuc, D. C. Irimia, A. G. Baciu, *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.

J. Invenții.

K. Contracte de cercetare.

L. Premii, distincții.

- Medalie de aur cu lucrarea "Animated Application to Control Humanoid Robot Through a Brain-Computer Interface" in cadrul Salonului Internațional de Inventică și Educație Creativă pentru Tineret, editia a VII-a 2023 – Universitatea „Ștefan cel Mare" din Suceava
- Premiu "Junior Inventor" in cadrul INVENTICA 2023 – Universitatea Tehnica "Gheorghe Asachi" Iasi
- Medalia de aur la editia a 15-a a expozitiei europene de creativitate si inovatie EuroInvent 2023 cu lucrarea "Clinically Tested Mechatronic Devices for Hand Reahabilitation"
- Medalie de argint cu lucrarea "Tehnici de control ale roboţilor umanoizi bazate pe interfeţe creier-calculator" in cadrul Salonului Internațional de Inventică și Educație Creativă pentru Tineret, editia a VI-a 2022 – Universitatea „Ștefan cel Mare" din Suceava
- Medalia de aur la editia a 13-a a expozitiei europene de creativitate si inovatie EuroInvent 2022 cu lucrarea "Brain-Computer Interfaces to control a humanoid/mechanical robot"
- Medalia de aur la editia a 11-a a expozitiei europene de creativitate si inovatie Euro Invent 2019 cu lucrarea "Brain Computer Interfaces to control neuroprostheses and robots"
- Medalie de aur cu lucrarea "Utilizarea interfețelor creier-calculator pentru controlul roboţilor mobili" in cadrul Salonului Internațional de Inventică și Educație Creativă pentru Tineret, editia a III-a 2019 –Universitatea „Ștefan cel Mare" din Suceava

M. Alte realizări semnificative.

15.01.2026 Alexandru Mitocaru

Conf.dr.ing. MUNTEANU ADRIAN

A. Teza de doctorat:

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

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

2. 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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS)

2. A. Munteanu - Electrical Engineering Technology, editura pim, ISBN 978-606-13-3373-8, pp :230, 2016

3. Adrian Munteanu - Mașini electrice – Curs, editura pim,ISBN 978-606-13-3533-6, pp.255, 2016

4. Bogdan Virlan, Adrian Munteanu – Generatoare sincrone cu excitație electromagnetică de mica putere – Metode de optimizare, Editura PIM, pp.160, 2024

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

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

1. **Munteanu Adrian**, *Sisteme electrice pentru tracţiune şi 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}

2. **Munteanu Adrian** - *Sisteme electrice pentru tracţiune şi autovehicule* – Îndrumar proiectare, 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}

3. **Munteanu Adrian –** Electrical Machines – îndrumar de laborator, http://masinielectrice.wixsite.com/tuiasi/publicatii

4. **Munteanu Adrian** – *Electrical Machines* – curs http://masinielectrice.wixsite.com/tuiasi/publicatii

5. **Munteanu Adrian**, *Modelare electromagnetica si termica in sisteme electrice* - curs, http://masinielectrice.wixsite.com/tuiasi/publicatii

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale

28. 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

29. 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

30. Al. Simion, L. Livadaru, R.-V. Cociu, A. Munteanu, Study of the Three-Phase Induction Machine under Dynamic Braking, Rev. Roum. Sci. Tech. – Electrotech. Et Energ., 58, 3, p. 273-283, Bucarest, 2013, ISSN 0035-4066

31. B. Virlan, S. Benelghali, Al. Simion, L. Livadaru, R. Outbib, A. Munteanu, Induction Motor with Outer Rotor and Ring Stator Winding for Multispeed Applications, IEEE Transactions on Energy Convertion, Vol. 28, No. 4, December 2013, p. 999-1007, ISSN 0885-8969

32. L. Livadaru, Al. Simion, A. Munteanu, M. Cojan, O. Dabija, Dual Cage High Power Induction Motor with Direct Start-up. Design and FEM Analysis, Rev. Advances in Electrical and Computer Engineering, vol. 13, nr. 2, 2013, ISSN 1582-7445, pp. 55-58 – 2013
33. R. Hanganu, A. Munteanu, Al. Simion, L. Livadaru, A. Malanciuc, B. Anghel, Study of a Direct Current (DC) Machine used on Automotive Low Environmental Impact Applications, Environmental Engineering and Management Journal, September 2012, Vol. 11, No. 9, 1725-1729,
34. A. Malanciuc, Al. Simion, L. Livadaru, A. Munteanu, C. Afanasov, FEM-basec Analysis of a Hybrid Synchronous Generator with Skewed Stator Slots, Rev. Advances in Electrical and Computer Engineering, vol. 11, nr. 4, 2011, ISSN 1582-7445, pp. 9-14 – 2011.
35. S. Mihai, Al. Simion, L. Livadaru, A. Munteanu, Induction Motor with Switchable Number of Poles and Toroidal Winding, Rev. Advances in Electrical and Computer Engineering, vol. 11, nr. 2, 2011, ISSN 1582-7445, pp. 71-76 – 2011
36. Al. Simion, L. Livadaru, S. Mihai, A. Munteanu, C.-G. Cantemir, Induction Machine with Improved Operating Performances for Electric Trucks. A FEM-Based Analzsis, Rev. Advances in Electrical and Computer Engineering, vol. 10, nr. 2, 2010, ISSN 1582-7445, pp. 71-76 - 2010
37. Al. Simion, A. Munteanu, L. Livadaru, On the Characteristics of the Hybrid Synchronous Generator, Rev. Advances in Electrical and Computer Engineering, vol. 7(14), nr. 4(36), 2007, ISSN 1582-7445, pp. 120-125 - 2007
38. L. Livadaru, C. Nuţescu, A. Munteanu, Al. Simion, M. Cojan, Comparative FEM-based Analysis of Multiphase Induction Motors, Analele Universităţii « Eftimie Murgu », Nr.2/2014 (B+), p.(223-230), ISSN 1453-7397
39. A. Munteanu, L. Livadaru, Al. Simion, B. Virlan, B. Anghel, Influence of the Stator Winding on the Performance of a Five-Phase PMSG, Buletinul AGIR, nr. 4/2013, octombrie-decembrie, pp. 195-200, ISSN – L 1224-7928 -2013
40. A-M. Mihai, Al. Simion, S. Mihai, L. Livadaru, A. Munteanu, Two-Phase Induction Macine with Toroidal Winding and Improved Performance, Buletinul AGIR, nr. 4/2012, octombrie-decembrie, pp. 137-142, ISSN – L 1224-7928 -2012
41. Al. Simion, L. Livadaru, A. Munteanu, Study of Induction Machine under Transient Duty and Steady-State as Synchronized Machine, Buletinul AGIR, nr. 4/2012, octombrie-decembrie, pp. 291-296, ISSN – L 1224-7928 -2012
42. L. Livadaru, Al. Simion, A. Munteanu, M. Sandru, O. Dabija, M. Cojan, Design and FEM-Based Simulation of a High-Power Induction Motor with Several Start-up Constraints, Buletinul AGIR, nr. 4/2012, octombrie-decembrie, pp. 101-106, ISSN – L 1224-7928 -2012
43. G.-D. Petropol-Serb, I. Petropol-Serb, I. Cautil, A. Munteanu „Open-Ended Laboratory" Method Applied in the Conception of a Test Bench to Simulate a „Diesel-Electric" Transmision, Annals of the University of Craiova, Electrical Engineering series, No 35, 2011, pp. 184-191 - 2011
44. A. Malanciuc, Al. Simion, A. Munteanu, Finite Element Method Study of the Hybrid Synchronous Generator by Skewed Stator Slots, Bul. Inst. Polit. din Iaşi, tom LVI (LXI), S. Electrot., Energ., Electronică, fasc.3, 2011, pp. 45 -50, ISSN 1223-8139 - 2011
45. Munteanu, Al. Simion, L. Livadaru, A. Malanciuc, PM Tubular Linear Synchronous Generator for Wave Energy Conversion, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, pp. 57-60, ISSN – L 1224-7928 -2011
46. B. Virlan, Al. Simion, L. Livadaru, A. Munteanu, A.-M. Mihai, S. Vlasceanu, External Rotor Shape Estimation of an Induction Motor by FEM Analysis, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, pp. 27-32, ISSN – L 1224-7928 - 2011
47. A.-M. Mihai, Al. Simion, L. Livadaru, B. Virlan, A. Munteanu, S. Vlasceanu, Novel Core Design for Improving Performance of the Induction Machines, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, pp. 23-26, ISSN – L 1224-7928 - 2011
48. L. Livadaru, F. Lazar, Al. Simion, A. Munteanu, A. Malanciuc, S. Vlasceanu, Permanent Magnet Synchronous Machines with Halbach Array Configuration – a F.E.M. Approach, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, pp. 17-22, ISSN – L 1224-7928 - 2011

49. Al. Simion, L. Livadaru, A. Munteanu, New Approach on the Study of the Steady-State and Transient Regimes of Three-Phase Induction Machines, Buletinul AGIR, nr. 4/2011, octombrie-decembrie, pp. 1-6, ISSN – L 1224-7928 - 2011
50. R. Hanganu, Al. Simion, L. Livadaru, A. Munteanu, Influence of the Variable air-gap upon the Electromagnetic Torque Developed by the D.C. Machine, Bul. Inst. Polit. din Iaşi, tom LIV(LVIII), S. Electrot., Energ., Electronică, fasc.4, 2008, pp. 901 -906, ISSN 1223-8139 - 2008
51. Al. Simion, A. Munteanu, L. Livadaru, M. Cojan, Study on the characteristics of a new hybrid synchronous generator, Academie Roumaine, Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energ., Tome 52, 3, 2007, p.321-330, ISSN 0035-4066, 2007
52. Al. Simion, A. Munteanu, L. Livadaru, I. Nacu, Comparative Study of the Operating Characteristics of a Hybrid Synchronous Generator With Wye or Delta Connection, Bul. Inst. Polit. Iaşi, tom LII(LVI), S. Electrot., Energ., Electronică, fasc.5A, 2006, pp. 423 -428, ISSN 1223-8139 - 2006
53. I. Nacu, Al. Simion, A. Munteanu, Electric Discharges Influence on the Magnetic Properties of the Bearings Componetnts Used in Electric Machines, Bul. Inst. Polit. Iaşi, tom LII(LVI), S. Electrot., Energ., Electronică, fasc.5A, 2006, pp. 377 -382, ISSN 1223-8139 - 2006
54. A. Munteanu, Al. Simion, L. Livadaru, R. Hanganu, On the Possibility of Voltage Variation of a Hybrid Synchronous Generator, Bul. Inst. Polit. Iaşi, tom LII(LVI), S. Electrot., Energ., Electronică, fasc.5A, 2006, pp. 371 -376, ISSN 1223-8139 - 2006
55. R. Hanganu, Al. Simion, L. Livadaru, A. Munteanu, F.E.M. Study of the Electromagnetic Torque Developed by a D.C. Machine, Bul. Inst. Polit. Iaşi, tom LII(LVI), S. Electrot., Energ., Electronică, fasc.5A, 2006, pp.347 -352, ISSN 1223-8139 - 2006
56. Al. Simion, A. Munteanu, L. Livadaru, On the Possibility of Using Hybrid Synchronous Generators for the Electromechanical Conversion of the Wind Energy Bul. Inst. Polit. Iaşi, tom LI(LV), S. Electrot., Energ., Electronică, fasc.5, 2005, pp. 125 -131, ISSN 1223-8139 - 2005
57. Al. Simion, A. Munteanu, I. Nacu, Aspects Regarding the Performance of Using Hybrid Synchronous Generators that Operate between Large Limits of Speed, Bul. Inst. Polit. Iaşi, tom LI(LV), S. Electrot., Energ., Electronică, fasc.5, 2005, pp. 131 -138, ISSN 1223-8139 - 2005
58. A. Munteanu, Al. Simion, L. Livadaru, Comparative Study on the Under-load Operation with Imposed Conditions of a Hybrid Synchronous Generators, Bul. Inst. Polit. Iaşi, tom LI(LV), S. Electrot., Energ., Electronică, fasc.5, 2005, pp. 161 -166, ISSN 1223-8139 - 2005
59. Al. Simion, A. Munteanu, R. Hanganu, F.E.M. Study of a New Hybrid Synchronous Generator for Automotives, Bul. Inst. Polit. Iaşi, tom LI(LV), S. Electrot., Energ., Electronică, fasc.5, 2005, pp. 167 -172, ISSN 1223-8139 - 2005

G. Lucrări ştiinţifice publicate în reviste din străinătate

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS[2]

I. Lucrări ştiinţifice publicate în volumele conferinţelor
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76. V. Bogdan, M. Adrian, L. Leonard, B. Alexandra, S. Alecsandru and N. Ionut, "Design and Optimization of a BLDC Motor for Small Power Vehicles," 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 438-443, doi: 10.1109/SIELMEN53755.2021.9600327.
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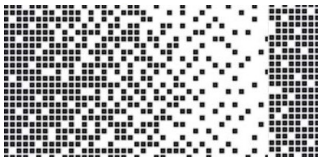
J. Invenţii

K. Contracte de cercetare/granturi
4. 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*24735/10000 = 24,735)
5. 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*24735/10000 = 24,735)
6. Cercetări privind ameliorarea performanţelor generatoarelor de energie electrică de pe autovehicule PN2 TD 83/2007 – director de proiect
7. Modele matematice şi soluţii de proiectare integrată a maşinilor electrice în scopul utilizării raţionale a resurselor naturale şi artificial, CEEX 285/P3/2006 – partener P3 cu ICPE SA Bucureşti, Responsabil contract: Simion Al. - membru
8. Sistem inteligent alternator – demaror – integrat pentru autovehicule - Contract nr. 27637/2005, Tema 35, Cod CNCSIS: 530, Director : Lucache Dorin - membru
9. Proiect NNX14AL87A intitulat 10 MW Ring Motor, finanţat de National Aeronautics and Space Administration (NASA), - cercetător invitat de către The Ohio State Univerity – Center for Automotive Research, Septembrie-Decembrie 2014 și Aprilie-Iulie 2016

L. Premii, distincţii

M. Alte realizări semnificative

Data 24 Noiembrie 2025 Semnătura.



* Conform H.G. 1175/ 2006

Prof.dr.ing. NEMES CIPRIAN-MIRCEA

A. Teza de doctorat.

Modelarea solicitărilor componentelor sistemelor electroenergetice în calculele de fiabilitate, 2005., Universitatea Tehnică „Gh. Asachi" din Iaşi, Domeniul Inginerie Industriala, conducător ştiinţific: prof.dr.ing. Dumitru Ivas.

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

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

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J. Invenţii.

1. 1. Ciprian Nemes, Florin Munteanu.“Metodă pentru managementul receptoarelor consumatorilor rezidențiali alimentați din surse fotovoltaice proprii” Cerere brevet nr. A00161/08.03.2018__

K. Contracte de cercetare.

Granturi de cercetare-dezvoltare câştigate prin competiţie naţională

1. Sistem de majorare a indicatorilor de autoconsum din surse fotovotaice, folosind conversia si stocarea sub forma de energie termica, Proiect tip PN-III-P3-3.1-PM-ROCN-2018-0093 / 02.07.2018-31.12.2018. Valoare 49.500 ron. Director proiect: CiprianNemeş

2. Sistem inteligent pentru managementul sarcinii consumatorilor rezidentiali alimentati din surse fotovoltaice, 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 Nemeş

3. Utilizarea modelelor analitice si a tehnicilor de inteligenta artificiala in optimizarea indicatorilor de fiabilitate a echipamentelor electroenergetice, prin monitorizarea solicitărilor. CNCSIC-AT/2007-2008, Cod CNCSIS – 29, Contract nr. : 33 GR /23.05.2007, 77 GR /11.06.2008.Valoare: 17000/2007; 18000/2008, Director proiect: Ciprian Nemeş

4. Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetic într-un oraș durabil, Proiect international - ERA NET Cofund-83/2016-2017 (SMART URBAN ISLE). Membru: Ciprian Nemeş

5. Construire platformă de cercetare pentru integrarea resurselor regenerabile in instalatii autonome-COPRESA, Proiect finanţat prin programul operaţional sectorial creşterea competitivităţii economice, axa prioritară 2 – Competitivitate prin CDI, operatiunea 2.3.2: Dezvoltarea infrastructurii de C-D a întreprinderilor, cu crearea de noi locuri de munca pentru C-D.
   Proiect nr. 608/10.12.2013 coordonat de S.C. DAS S.R.L. Iaşi. Valoarea totală de 6.126.355,31 RON, din care asistenţa financiară nerambursabilă este de 2.443.129 RON. Membru UTI: Ciprian Nemeş

6. Cercetări privind integrarea surselor regenerabile de energie: studii în direcţia dezvoltării serviciului de alimentare cu energie electrică. Domeniul de cercetare: Mediu dezvoltare

durabilă, Proiect: Performanţă prin postdoctorat pentru integrarea in aria europeană de cercetare, PERFORM-ERA, ID – 57649, 2010 - 2013, POSDRU/89/1.5/S/57649 Proiect finanţat prin Programul Operaţional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013. Buget total proiect: 20.813.320 RON, din care finanţare nerambursabilă 20.016.735 RON. Proiect coordonat de Prorectoratul Ştiinţific al Universtităţii Tehnice "Gheorghe Asachi" din Iaşi. Membru / cercetător postdoc: Ciprian Nemeş

7. Aparate si comutari inteligente in sistemele electroenergetice, Proiect CEEX – MENER nr. 607/2005-2007, Valoare: 48936.21/2005; 168000/2006; 50000/2007, Membru: Ciprian Nemeş

8. Dezvoltarea parteneriatelor C/D in vederea promovării unor proiecte europene în domeniul sistemelor distribuite de monitorizare a mediului, CEEX Modul 3, contract 201/2006, 2006 – 2008, Membru: Ciprian Nemeş.

Contracte încheiate cu institute de cercetare, companii, regii, societăţi comerciale

1. Cercetari privind dezvoltarea uniu sistem pentru monitorizarea si optimizarea indicatorilor de autoconsum din surse distribuite Contract nr. 16052P\07.09.2017 - 15.10.2018, Beneficiar: SC DAS SRL Iasi. Valoare: 45000 RON + TVA, Responsabil temã: Ciprian Nemes.

2. Cercetari experimentale privind calitatea energiei electrice si solutii de ameliorare in cadrul Arcelor Mittal Galati. Contract nr. 141P\26.01.2017, Beneficiar: SC Arcelor Mittal Galati. Valoare: 33750 RON + TVA, Membru: Ciprian Nemes

3. Masuratori privind calitatea energiei electrice si solutii de ameliorare in cadrul Arcelor Mittal Galati. Contract nr. 2016P\15.12.2015 - 19.09.2016 , Beneficiar: SC Arcelor Mittal Galati. Valoare: 30000 RON + TVA. Membru: Ciprian Nemes

4. Estimarea productiei de energie electrica si dimensionarea parcului fotovoltaic de 132,6 kWp – Letcani, Contract nr. 3872P / 04.03.2013, Beneficiar: SC Consult Finance SRL Iasi. Valoare: 3500+ TVA= 4340 RON, Responsabil temã: Ciprian Nemes.

5. Cercetări experimentale privind proiectarea, functionarea si exploatarea panourilor fotovoltaice si optimizarea sistemelor inteligente de orientare biaxialã. Contract nr. 2274P / 17.12.2012 - 15.06.2014, Beneficiar: SC DAS SRL Iasi. Valoare: 20.000 euro+TVA. Membru: Ciprian Nemes

2

6. Evaluarea prin calcul a câmpurilor electrice şi magnetice de 50Hz în zona traversărilor variantei de ocolire a mun. Iaşi, de către LEA 220 kV Gutinaş-Munteni-FAI, Contract nr. 2874P / 31.08.2011, Beneficiar: SC Electromontaj SA, Sucursala Iaşi. Valoare: 2000 RON. Responsabil temă: Ciprian Nemeş

7. Substaţiile de tracţiune la Regionala CFR Iaşi şi siguranţa circulaţiei pe căile ferate, Contract nr. 7680P/2007 Beneficiar: E-on Energie Iasi. Valoare: 12.500+TVA=14.875RON, Membru: Ciprian Nemes

8. Studiul şi determinarea prin calcul a tensiunilor induse în LEA 220-400 kV din gestiunea ST. Bacău, în condiţii speciale de paralelism, în vederea respectării valorilor limită admise, Contract nr. 3274P/17.10.2005, Beneficiar: C.N. Transelectrica S.A. Sucursala de Transport Bacău. Valoare 99000+TVA=11781 RON, Membru: Ciprian Nemeş

9. Măsurarea tensiunii de atingere şi de pas la staţia 110/20/6 kV Comăneşti, Contract nr. 321P/13.02.2004, Beneficiar: S.C. ELCO SA Botosani, Valoare 2000+TVA=2.380 RON, Responsabil temă: Ciprian Nemeş

10. Instrumente matematice de modelare a comportării construcţiilor hidrotehnice bazate pe metoda seriilor de timp, Contract nr. 1910P/23.09.2004, Beneficiar: Universitatea Tehnicã Cluj Napoca, Valoare 15.000+TVA=17.850 RON, Responsabil temă: Ciprian Nemeş

11. Modelarea fiabilităţii sistemelor cu structură dinamică aplicată sistemelor de transport al energiei electrice, Contract nr. 1579P/24.07.2004, Beneficiar: C.N. Transelectrica S.A. Sucursala de Transport Bacău, Valoare 6.500+TVA=7.735 RON, Responsabil temă: Ciprian Nemeş
12. Verificarea SUUCE pentru optimizarea exploatării şi dezvoltării instalaţiilor la SH Rm. Vâlcea, Contract nr. 894P/2001-2002 Beneficiar: SH Râmnicu Vâlcea. Valoare 9.146+TVA=10.884 RON, Membru: Ciprian Nemeş

13. Criterii, metode şi instrumente de decizie în dezvoltarea şi exploatarea reţelelor de transport în condiţiile create de reforma sectorului energetic, Contract nr. 1135P/2001, Beneficiar: C.N. Transelectrica S.A. Sucursala de Transport Bacău. Valoare 4.000+TVA=4.760 RON, Membru: Ciprian Nemeş

14. Optimizarea structurii reţelelor de MT ale SDEE Bacău pe baza analizei combinate CPT-fiabilitate, Contract nr. 1262/1999 Beneficiar: CONEL Bacău. Valoare 2.500 RON, Membru: Ciprian Nemeş

15. Principii tehnice şi economice moderne în exploatarea sistemelor de alimentare cu energie electrică, Contract nr. 1263/1999 Beneficiar: CONEL Bacău. Valoare 2.500 RON, Membru: Ciprian Nemeş

16. Evaluarea instrumentelor necesare pentru licitarea energiei electrice pe intervale, Contract nr. 412P/1999, Beneficiar: CONEL Bacău. Valoare 4.500 RON, Membru:Ciprian Nemeş

17. Analiza pierderilor este energie electrică în reţeaua de distribuţie a SDEE Târgovişte, Contract nr. 16709/1998, Beneficiar: SC Electrica SA. Valoare 6.000 RON, Membru: Ciprian Nemeş

7. Dezvoltarea parteneriatelor C/D in vederea promovării unor proiecte

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
20.04.2025

Nume, semnătura
prof.univ.dr.ing. Ciprian Mircea Nemeș

Conf.univ.dr.ing. COSTICĂ NIȚUCĂ

A. Teza de doctorat.

T1 – *Probleme de captare a curentului electric de la linia de contact pentru vehicule acţionate electric*, anul susţinerii – 2003, Universitatea Tehnică ”Gheorghe Asachi” din Iaşi, Domeniul – Inginerie electrică, conducător doctorat, prof. dr. ing. dr. H.C. Lorin Cantemir.

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

Ca1 - T. Stanciu, **C. Niţucă**, *Didactics of technical subjects,* Editura Tehnica-Info, Chişinău, R. Moldova, 2006, ISBN 9978-9975-910-13-2. (Format B5, 312 pagini, 40 r/pg., lb. eng., 1,2)

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

Ca7 – C. Nițucă, I. Nucă, A. T. Plești, G. Chiriac, V. Cazac, M. Burduniuc, *Improving the cross-border public transportation using electric buses supplied with renewable energy,* Editura Tritonic Books, București, 2022, ISBN 978-606-749-584-3. (Format A5, 220 pagini, 32r/pg., în limba engleză).

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Ca5 – C. Niţucă, *Circuite integrate analogice. Note de curs,* Editura Tehnopress, Iaşi, 2019, ISBN 978-606-687-397-0. (Format B5, 144 pagini, 30r/pg.).

Ca4 - C. Niţucă, *Tehnica muncii intelectuale,* Editura Tehnopress, Iaşi, 2016, ISBN 978-606-687-292-8. (Format B5,190 pagini, 37r/pg.).

Ca3 - C. Niţucă, *Alimentarea şi captarea energiei electrice în tracţiunea feroviară,* Editura Performantica, Iaşi, 2009, ISBN 978-973-730-628-9. (Format B5, 260 pagini, 40r/pg.).

Ca2 - L. Cantemir, **C. Niţucă**, V. Dulgheru, Maria I. Carcea, Mariana N. Iftimie, *Iniţiere în creativitate tehnică, Vol. I,* Editura Tehnica Info, Chişinău, 2008, ISBN 978-9975-63-066-5. (Format B5, 278 pagini, 37r/pg.).

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I2 - Elena Tiron (coord), *Educaţia centrată pe elev/student. Îndrumar*, **C. Niţucă** (Coordonator capitol - formator: *Specialitate şi didactica specialităţii centrată pe elev/student*, pp. 47-117), Editura Performantica, Iaşi, 2012, ISBN 978-973-730-938-9. (Format B5, 70 pagini, 30r/pg.).

I1 - C. Niţucă, Maria I. Carcea, *Caiet de practică pedagogică desfăşurată,* Editura Performantica, Iaşi, 2006, ISBN 973-730-185-4. (Format A4, 104 pagini, 41r/pg.).

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C. Niţucă, Circuite integrate analogice, Indrumar de laborator, **Sisteme de laborator funcţionale** (la adresa: http://www.euedia.tuiasi.ro/wp-content/uploads/Documente_PDF_Staff/Costica_Nituca/CIA_Laborator_Nituca.pdf)

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R4 - D. Cuciureanu, **C. Niţucă**, G. Chiriac, *Force Estimation of an Asymmetrical Pantograph for Different Damper Positions*, Journal: Indian Journal of Science and Technology, Volume 9, Issue 40, 2016, Article number 88878, **Source Type:** Journal, **ISSN:** 09746846, *DOI: 10.17485/ijst/2016/v9i40/88878,* **Document Type:** Article, Published 2016. (**Indexat Scopus**).
R3 - G. Chiriac, D. Cuciureanu, **C. Niţucă**, *Critical Speed Impact over the Pantograph-Catenary System's Behaviour*, Journal: Indian Journal of Science and Technology, Volume 9, Issue 40, 2016, Article number 86736, Source Type: Journal, **ISSN:** 09746846, DOI: 10.17485/ijst/2016/v9i40/86736, Document Type: Article, Published 2016. (**Indexat Scopus**).

R2 - C. Niţucă, *Thermal analisys for a double-sided linear induction motor*, European Scientific Journal, March 2013, Edition vol.9, No.9, ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431, pp. 38-50, Published 2013. Document Type: Article. **(Indexat EBSCO, PROQUEST, Copernicus, Urlich's).**
R1 - G. Chiriac**, C. Nituca**, A. Plesca, *Possibilities to supply the railway electric vehicles through the electric arc*, Buletinul Institutului Politehnic din Iaşi, Tomul LIX (LXIII), Fasc. 4, Secţia Electrothenică. Energetică. Electronică. 2013. **(Index Copernicus, Ulrich's).**

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R1 - C. Niţucă, T. Stanciu, *Issuses regarding the quality of pedagogical practical training of students in field of manufacturing engineering,* Academic Journal of Manufacturing Engineering, Vol. 2, No. 4/2004, pp. 48-52, Editura Politehnica, Timişoara - 2004, ISSN 1583-7904.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.
V.25. 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).
V.24. M. Burduniuc, C. Răileanu, O. Mangos, V. Cazac, Ghe. Tertea, **C. Niţucă**, *Automated System for Real-Time Testing of Multiphase Asynchronous Electric Motors*, *15th International Conference on Electromechanical and Energy Systems*. (SIELMEN 2025).
V23 - A. Dragomir. M. Adam, G. Chiriac, D. Murgoci, A. Vîlcu, **C. Niţucă**, *Infrared Monitoring of Low Voltage Switch Separator Contact Resistance,* International Conference on Electromechanical and Energy Systems (SIELMEN), 2023, DOI: 10.1109/SIELMEN59038.2023.10290782, (**Indexat IEEE *Xplore***).
V22 - G. Chiriac, D.D. Lucache, **C. Niţucă** 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, (**Indexat IEEE *Xplore, Scopus***).
V21 - I. Nuca, Cazac V. Burduniuc M., **Niţucă C**., Chiriac G., Gabor G., *A Hybrid Charging System Design for Electric Vehicles with Autonomous Power Source*, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 487-490, doi: 10.1109/SIELMEN53755.2021.9600328. (**Indexat IEEE *Xplore, Scopus***).
V20 - G. Gabor, A.T. Plesca, F.A. Rusu, **C. Niţucă**, *Analysis of sliding electromagnetic coupling parameters in a PLC automation system,* International Conference on Electromechanical and Energy Systems (SIELMEN), Location: Craiova, Romania, Date of Conference: 9-11 Oct. 2019, DOI: 10.1109/SIELMEN.2019.8905912, Electronic ISBN: 978-1-7281-4011-7, USB ISBN: 978-1-7281-4010-0, Print on Demand (PoD) ISBN: 978-1-7281-4012-4, (**Indexat IEEE *Xplore, Scopus***).
V19 - G. Chiriac, **C. Niţucă**, D. Sticea, *Electric Locomotive Laboratory Test Bench for Research and Educational Purposes*, **8th International Conference on Modern Power Systems (MPS),** 21-23 may, 2019, paper 172, Cluj Napoca, Romania, **2019.** Publisher: IEEE (Institute of Electrical and Electronics Engineers). (**Indexat IEEE *Xplore***).
V18 - C. Niţucă, G. Chiriac, C. I. Gaţu, D. Cuciureanu, I. Murgescu, *Laboratory Off-Grid Photovoltaic System with Two Axes Orientation*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 846-849, Published: 2018. Accession Number: WOS: 000458752200165, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V17 - C. Niţucă, G. Chiriac, C. I. Gaţu, D. Cuciureanu, I. Murgescu, *Design and Experimental Studies on Laboratory Photovoltaic Concept for Mechatronics System of Solar Electric Application*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 932-936, Published: 2018. Accession Number: WOS: 000458752200182, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).

V16 - C. Pintilie, A. Pleșca, G. Gabor, **C. Niţucă**, M. Adam, A. Dragomir, *Thermal Analysis of Tankless Heating System Using PLC*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 454-457, Published: 2018. Accession Number: WOS: 000458752200086, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V15 - C. Dumitrescu, A. Plesca, M. Adam, **C. Niţucă**, A. Dragomir, *Methods for Reducing Energy Consumption, Optimization in Operational Data Centers*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 483-486, Published: 2018. Accession Number: WOS: 000458752200092, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V14 - C. Dumitrescu, A. Plesca, Laura Dumitrescu, M. Adam, **C. Niţucă**, A. Dragomir, *Assessment of Data Center Energy Efficiency. Methods and Metrics*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 487-492, Published: 2018. Accession Number: WOS: 000458752200093, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V13 - G. Gabor, C. Pintilie, C. Dumitrescu, **C. Niţucă,** A. T. Plesca, *Application of Industrial PROFIBUS-DP Protocol*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 614-617, Published: 2018. Accession Number: WOS: 000458752200119, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V12 - Șt. Patrichi, **C. Niţucă**, G. Chiriac, A. Pleșca, Z. Liu, Y. Geng, *Simulating Thermal Phenomena Occurring in Fast Electric Fuses Used for Power Electronic Protection*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 910-915, Published: 2018. Accession Number: WOS: 000458752200178, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V11 - Șt. Patrichi, A. Pleșca, **C. Niţucă**, G. Chiriac, J. Wang, X. Huang, *Thermal Modeling and Simulations for Fast Electric Fuses*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 920-923, Published: 2018. Accession Number: WOS: 000458752200180, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V10 - M. Cardasim, **C. Niţucă**, A. Pleşca, G. Chiriac, C. Dumitrescu, *Reliability Parameters Estimation for a Railway Catenary Power System*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 1051-1056, Published: 2018. Accession Number: WOS: 000458752200206, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V9 - T. Stanciu, **C. Niţucă**, G. Chiriac, A. Pleşca, *Coherence and Continuity in the Continuing Education of Electrical and Energetic Field Teachers from The Pre-University Environment*, 10th International Conference and Exposition on Electrical and Power Engineering (EPE), 2018, Location: Iasi, ROMANIA, Date: OCT 18-19, 2018, Book Series: International Conference and Exposition on Electrical and Power Engineering, Pages: 1057-1062, Published: 2018. Accession Number: WOS: 000458752200207, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V8 - G. Chiriac, **C. Niţucă**, D. Cuciureanu, I. Murgescu, *Analysis of Hot-Spots Effects on the Performances of a Photovoltaic System Used in Romania*, Conference: 2017 International Conference on Electromechanical and Power Systems (SIELMEN), Location: Iasi, ROMANIA, Date:

OCT 11-13, 2017, Pages: 239-244, Published: 2017. Accession Number: WOS: 000426906000047, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V7- Aparaschivei, G. Chiriac, **C. Niţucă**, T. A. Plesca, *Analysis of a Cable Lug Failure for a Recycle Compressor Trip*, Conference: 2017 International Conference on Electromechanical and Power Systems (SIELMEN), Location: Iasi, ROMANIA, Date: OCT 11-13, 2017, Pages: 403-406, Published: 2017. Accession Number: WOS: 000426906000076, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V6 - G. Chiriac, **C. Niţucă**, M. Cardasim, *Failures Analysis in the 25 kV/50 Hz Railway Substations*, Conference: 2017 International Conference on Electromechanical and Power Systems (SIELMEN), Location: Iasi, ROMANIA, Date: OCT 11-13, 2017. Pages: 407-410, Published: 2017. Accession Number: WOS:000426906000077, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V5 - D. Cuciureanu, **C. Niţucă**, G. Chiriac, D. Sticea, *Analysis of the Photovoltaic Panels Currently in Use in Different Locations,* Conference: 2017, 9th International Conference and Exposition on Electrical and Power Engineering (EPE), Location: Iasi, ROMANIA, Date: OCT 20-22, 2016, Pages: 888-893, Published: 2016. Accession Number: WOS: 000390706300174, Document Type: Proceedings Paper. (**Indexat WOS**, **Scopus**, **IEEE *Xplore***).
V4 - C. Niţucă, Magdalena Iorga, *The Importance of Training Trainers Using Education Soft and Technologies*, Conference: 16th International Conference on Modern Technologies, Quality and Innovation, Location: Sinaia, ROMANIA, Date: MAY 24-26, 2012, Book Series: International Conference ModTech Proceedings, Pages: 681-684, Published: 2012. Accession Number: WOS: 000392261800171, Document Type: Proceedings Paper. (**Indexat WOS**).
V3 - C. Niţucă, T. Stanciu, *Core competencies in a changing educational environment essential in the act of teaching technical and technological subjects,* Conference: 5th International Conference on Manufacturing Science and Education on Creative Thinking in Engineering and Academic Education, Location: Sibiu, ROMANIA, Date: JUN 02-05, 2011, VOL II, Book Series: Proceedings of the International Conference on Manufacturing Science and Education, Pages: 47-50, Published: 2011. Accession Number: WOS: 000393733900012, Document Type: Proceedings Paper. (**Indexat WOS**).
V2 - C. Niţucă, T. Stanciu, *Study case for teaching in a e-learning open source environment,* Conference: 5th International Conference on Manufacturing Science and Education on Creative Thinking in Engineering and Academic Education, Location: Sibiu, ROMANIA, Date: JUN 02-05, 2011, VOL II, Book Series: Proceedings of the International Conference on Manufacturing Science and Education, Pages: 101-104, Published: 2011. Accession Number: WOS: 000393733900025, Document Type: Proceedings Paper. (**Indexat WOS**).
V1 - L. Cantemir, **C. Niţucă**, G. Chiriac, A. Rachid, *Unconventional Current Collecting of the Electric Energy from a Contact Line for the Electric Traction Vehicles,* Conference: PACIFIC 2011 - International Conference on: Pantograph-Catenary Interaction Framework for Intelligent Control, Conference Proceedings, *December 8th 2011, Amiens, France,* pp. 48-53, Conference Paper, Published 2011, Code 92659. (**Indexat Scopus**).

J. Invenții.

B1 - L. Cantemir, A. Rachid, **C. Niţucă**, I.C. Bărbânţă, G. Chiriac, A.P. Alexandrescu, *Echipament de acţionare electromagnetică a unui culegător de curent de tip pantograf*, Brevet de invenţie Nr. 128199, RO 128199 B1, Data depozit 23.08.2011, Data eliberării 28.02.2018.

K. Contracte de cercetare.

Proiecte de cercetare/educaţionale

Proiecte de cercetare/educaţionale pe bază de grant, sau după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional / cultural / economic / social, din care:*

1. **Director proiect** – *Improving the technical and energy performances of multiphase propulsion systems on electric buses - Îmbunătățirea performanțelor tehnice și energetice ale*

sistemelor de propulsie multifazice pentru autobuze electrice - IPEBUS, PN-IV-PCB-RO-MD-2024-0264, Proiecte complexe bilaterale cu Republica Moldova, Programul 5.8 – Cooperare Europeană și Internațională – Subprogramul 5.8.3 - Bilateral/Multilateral (din PNCDI IV), contract de finanțare nr. 38PCBROMD/2025, Volumul finanţării: 700.000,00 lei.Perioada de desfăşurare: 01.09.2025 – 01.09.2027.

2. **Director proiect** - „*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. Volumul finanțării: 97,880.00 Euro.
3. **Director proiect** - *Studiul experimental al caracteristicilor curentului de arc de suprasarcină la siguranţele fuzibile de curent continuu/The experimental study on overload current arc characteristics of DC electric fuse*, România-China, Contract PN-III-P3-3.1-PM-RO-CN-2018-25BM. Volumul finanțării: 49.980,00 Lei.
   Proiectul a avut în vedere analiza mecanismelor fizice privind întreruperea curenţilor de sarcină la siguranţele fuzibile de curent continuu.
4. **Membru** în programul ROSE, Şcoala de vară „*Student ELECTRO la TUIASI*", Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Facultatea de Inginerie Electrică, Energetică şi Informatică Aplicată, Perioada 2019-2020. Director de proiect, prof.dr.ing. M. Adam.
5. **Membru** în proiectul "*Excelenţă în profesie şi în viaţă prin TUIASI (Excel TUIasi)*", proiect de dezvoltare instituţională, nr. CNFIS-FDI-2017-0017. Proiect derulat în perioada 26.06.2017-15.12.2017. Director de proiect, prof.dr.ing. C. Oprişan.
   Responsablităţi: Elaborare chestionar intern on-line monitorizare inserție profesională absolvenți, strategie competențe transversale, consilier târg locuri de muncă TUIASI.
6. **Membru** în proiectul „*Modelling and simulation of the current limiting fuses*", Capacities, Module III, Bilateral Research Project China - Romania, Contract no. 610/01.01.2013. Proiect derulat în perioada 2013-2014. Director de proiect, prof.dr.ing. T. A. Pleşca.
   Responsablităţi: analiza campului electro-termic la sigurante fuzibile limitatoare de curent, având la bază modelarea și simularea tridimensională a funcționării aparatelor electrice folosind un pachet software ce utilizează metoda elementului finit; analiza regimului tranzitoriu termic la sigurantele fuzibile pentru protectia semiconductoarelor de putere.
7. **Membru** în proiectul POS DRU *"Formarea personalului didactic din învăţământul secundar (ISCED 2-3) în vederea utilizării tehnologiei informaţiei şi a instrumentelor e-learning în activitatea didactică", eProf,* Expert pe termen scurt. Proiect derulat în perioada 2010-2012. Director de proiect, prof.dr.ing. Andon Hadăr, TUIASI, responsabil proiect, prof.dr.ing. Şt. Grigoraş.
   Responsabilităţi: predare, evaluare discipline din proiect (Didactica specialităţii, Instruire Asistată de Calculator).
8. **Membru** în proiectul strategic POS DRU/57/1.3/S/17884, *„Specializarea personalului didactic universitar pentru funcţia de „Cadru didactic supervizor" de practică tehnologică şi de cercetare"*, Expert pe termen lung. Proiect derulat în perioada 2010-2012. Director proiect, prof.dr.ing. M. D. Guşă.
   Responsabilităţi: Proiectarea didactică a activităţilor aplicative şi practice pentru formarea competenţelor de coordonare a practicii tehnologice şi de cercetare; proiectare, instrumentare, predare, evaluare discipline din proiect.
9. **Membru** în proiectul POS DRU/19/1.3/G/33739 „*Edu Tehnic Forma Plus",* Expert pe termen scurt. Proiect derulat în perioada 2010-2012. Director proiect, Conf.dr. Elena Dumitriu Tiron.
   Responsabilităţi: proiectarea didactică a activităţilor de învăţare, predare, evaluare a disciplinelor din proiect, cercetare pentru întocmirea materialelor didactice.
10. **Membru** în proiectul POS DRU/22/2.1/G/36441, „*Consiliere şi orientare profesională prin informare şi evaluare psihologică. Pasul cel mare. De la liceu la universitate"*. Expert pe termen scurt. Perioada 2009-2011. Director proiect, lect.dr. Smaranda Buju.

Responsabilităţi: activităţi de mentorat, monitorizare şi evaluare a demersurilor practice de consiliere educaţională a studenţilor-consilieri; evaluator în cadrul concursului de mini-proiecte.

L. Premii, distincții.

1. Premiu CNCS: Competitia 2013_Premierea rezultatelor cercetarii - articole. Premiere pentru articolul cu titlul "*Thermal analysis of electrical contacts from pantograph–catenary system for power supply of electric vehicles*" Project Registration Code: PN-II-RU-PRECISI-2013-7-2018

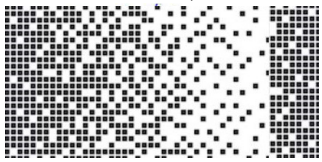
2. Medalia de aur, L. Cantemir, **C. Niţucă**, G. Chiriac, A. Alexandrescu Panait, D. Cuciureanu, *A New Tipe of Electric Generator*, The XV-the International Exhibition of Research, Innovation and Technological Transfer „Inventica 2011", Iasi, Romania, 8-10 june 2011.

3. Medalia de argint la International Fair of Inventions and Practical Ideas , October 2015, Iasi. Pentru Cererea de brevet de inventie: *Balast cu miez comun*, Autori D. Cuciureanu, D.Ioachim, G. Chiriac, **C. Niţucă**.

M. Alte realizări semnificative.

Data,
31.10.2025

Nume, semnătura
Conf.univ.dr.ing. Costică Nițucă



* Conform H.G. 1175/ 2006

Lect. Dr. Fiz. Nechifor Cristina-Delia

A. Teza de doctorat.

Studiul proprietăţilor fizico-chimice ale unor aliaje polimere cu potenţiale aplicaţii biomedicale, ***2011,*** *Universitatea "Alexandru Ioan Cuza" din Iași, Domeniul Fizică, conducător doctorat: prof. univ. dr. Dorohoi Dana-Ortansa.*

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

Cap.9. Effects of Gamma Irradiation on Polymer Materials Used in Biomedical Applications, Nechifor C.D., În **ELECTROMAGNETIC RADIATION IN ANALYSIS AND DESIGN OF ORGANIC MATERIALS. ELECTRONIC AND BIOTECHNOLOGY**

APPLICATIONS*, Ed. Dorohoi D.O., Barzic A.I., Aflori M., CRC Press Taylor & Francis Group,*

2017*, ISBN-13: 978-1-4987-7580-9.*

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

1. Îndrumar de laborator Fizică pentru învățământul preuniversitar**: EXPERIMENTEAZĂ. ÎNVAȚĂ. DESCOPERĂ**, Ed. Performantica, **2025**, ISBN: 978-630-328-164-3, Autori: Băcăiță, S.E., Ciobanu, I.B., Nechifor, C.D, et. all., 245 de pagini
2. Îndrumar de lucrări practice pentru disciplina **Fizică**, Ed. Performantica, Iași, **2023**, ISBN 978-630-328-060-8, 172 de pagini.
3. Caiet de lucrări practice la disciplina **Fizică Generală, specializarea CMMI,** Petru Edward NICA, Cristina-Delia NECHIFOR, Rodica BĂDESCU, Ed. PIM Iasi, **2013**, ISBN 978- 606-13-0035-8, 76 de pagini.
4. Caiet de lucrări practice la disciplina **Bazele fizice ale măsurătorilor electrice de distanţă**, Rodica BĂDESCU, Dorin CONDURACHE, Cristina-Delia NECHIFOR, Petru NICA, Ed. PIM Iasi, **2010**, ISBN: 978-606-520-765-3, 51 de pagini
5. Caiet de lucrări practice la disciplina **Fizică pentru Facultatea de Mecanica,** Alexandrina JEFLEA, Dorin CONDURACHE, Petru NICA, Cristina-Delia NECHIFOR, Ed. PIM Iasi, **2011**, ISBN978-606-13-0215-4, 42 de pagini
6. Caiet la disciplina **Fizică 2, pentru Facultatea de Chimie Industriala,** Rodica BĂDESCU, Petru NICA, Cristina-Delia NECHIFOR, Ed. PIM Iasi, **2011,** ISBN 978-606-13- 0210-9, 96 de pagini.
7. Caiet de lucrări practice la disciplina **Fizică Generală, specialize TCM,** Petru Edward NICA, Cristina-Delia NECHIFOR, Rodica BĂDESCU, Dorin CONDURACHE, Ed. PIM Iasi, **2010**, ISBN 978-606-13-0035-8, 91 de pagini.
8. Caiet de lucrări practice la disciplina FIZICA II, SIM, Petru Edward NICA, Rodica BĂDESCU, Dorin CONDURACHE, Cristina-Delia NECHIFOR, Ed. PIM Iasi, **2010**, ISBN 978-606-13-0216-1, 46 de pagini.

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

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

1. Suport de curs, 2025-2026, General | CURS DE FIZICĂ IEEIA _INGINERIE ELECTRICA_2025-2026 | Microsoft Teams
2. Suport de curs, **2024-2025**, FIZICĂ_IEEIA_6101-6104_2024-2025 | General | Microsoft Teams
3. Suport de curs, **2023-2024**, https://teams.microsoft.com/l/channel/19%3adep21LxTZz0iuNCJ6PQIaZwNed9ie_OU-cmHRb9YbzQ1%40thread.tacv2/General?groupId=9fdb029d-0b24-4987-b036-572b775d1c7b&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1
4. . Suport de lucru pentru seminarii, **2025-2026**, General | CURS DE FIZICĂ IEEIA _INGINERIE ELECTRICA_2025-2026 | Microsoft Teams
5. . Îndrumar laborator, **2024-2025,** FIZICĂ_IEEIA_6101-6104_2024-2025 | General | Microsoft Teams
6. . Îndrumar laborator, **2025-2026,** General | CURS DE FIZICĂ IEEIA _INGINERIE ELECTRICA_2025-2026 | Microsoft Teams

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Barzic, AI; Albu, RM; Stoica, I**; Nechifor, CD**; Avadanei, MI; Dimitriu, DG ; Dorohoi, DO, Birefringent polyvinyl alcohol layers as retardation components for display devices, POLYMERS FOR ADVANCED TECHNOLOGIES 35(1), DOI10.1002/pat.6196, **2024**;

2. Dorohoi, DO; Postolache, M; **Nechifor, CD**; Dimitriu, DG; Albu, RM; Stoica, I.; Barzic, AI; Review on Optical Methods Used to Characterize the Linear Birefringence of Polymer Materials for Various Applications, MOLECULES 28(7), DOI10.3390/molecules28072955, **2023**;

3. Androne, DAM; **Nechifor, C**; Postolache, M; Dimitriu, DG; Dorohoi, DO; UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS**,** 85(2), pp.:199-212, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez3f8_168882.pdf; **2023.**

4. Lutcanu, M; Coteata, M; Bernevig, MA; **Nechifor, CD**; Cazacu, MM; Paraschiv, P; Istrate, B.; Badarau, G.; Sandu, IG; Cimpoesu, N; Obtaining and Analyzing the Al2O3-Zr02 Ceramic Layers on Metallic Substrate, ARCHIVES OF METALLURGY AND MATERIALS 67(2), pp.:479-485, DOI10.24425/amm.2022.137780, **2022**.

5. Postolache, M; Dimitriu, DG; **Nechifor, CD**; Bota, SC ; Closca, V. ; Dorohoi, DO; Birefringence of Thin Uniaxial Polymer Films Estimated Using the Light Polarization Ellipse, POLYMERS 14(5), DOI10.3390/polym14051063, **2022**.

6. Cheptea, C.; Sunel, V; Morosanu, AC; Dimitriu, DG; Dulcescu-Oprea, MM; Angheluta, MD; Miron, M; **Nechifor, CD**; Dorohoi, DO; Malancus, RN; Optimized Synthesis of New N-Mustards Based on 2-Mercaptobenzoxazole Derivatives with Antitumor Activity, 2 BIOMEDICINE 9(5), DOI10.3390/biomedicines9050476, **2021**.

7. Barzic, AI, Albu, RM; **Nechifor, CD**; Postolache, M; Logigan, C.; Dorohoi, DO, Surface Processing of Polyethylene Terephthalate for Orientation of Nematics in Display Devices, MATERIALE PLASTICE 57(2), pp.: 1-7, DOI: 10.37358/MP.0.0.5344, **2020**.

8. Nechifor, CD; Aflori, M; Dorohoi, DO, Anisotropy of Thin Foils Obtained from Microwave-Irradiated Poly(Vinyl Alcohol) Aqueous Solutions, POLYMERS 11(6), 10.3390/polym11061072, **2019.**

9. Nechifor, CD; Postolache, M; Albu, RM; Barzic, AI; Dorohoi, DO, Induced birefringence of rubbed and stretched polyvinyl alcohol foils as alignment layers for nematic molecules, POLYMERS FOR ADVANCED TECHNOLOGIES, 30(8), pp.: 2143-2152, DOI: 10.1002/pat.4647, **2019.**

10. Barzic A.I., Nechifor C.D., Stoica, I, Dorohoi, D.O., On the Effects of UV Radiation on the Release Ability of Glucose Embedded in Hydroxypropyl Cellulose Films, JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS 55(6), pp.: 575-590, **2016**.
11. **Nechifor, C.D**.; Zelinschi, C. B.; Dorohoi, D. O., Evaluation of Film Forming Polymeric Solutions for Skin Wound Dressing, MATERIALE PLASTICE 52(2), pp.:249-253, **2015**.
12. Nechifor, C-D; Barzic, A. I.; Stoica, I.; Closca, V.; Dorohoi, D.-O., Study on glucose release ability from hydroxypropyl cellulose films, POLYMER BULLETIN, 72(3), pp.: 549-563, **2015.**
13. **Nechifor, Cristina-Delia**; Zelinschi, Carmen Beatrice; Dorohoi, Dana-Ortansa, Influence of UV and Gamma radiations on the induced birefringence of stretched poly(vinyl) alcohol foils, Journal of Molecular Structure, 1062, pp. 179-184, **2014**.
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15. Cigu, TA; **Nechifor, CD**; Sunel, V; Dorohoi, DO; Cheptea, C, Optimization Reaction for Obtaining New Hydrazidones with Biological Action, REVUE ROUMAINE DE CHIMIE 59(9), pp.: 739-747, **2014**.
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J. Invenţii.

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 naţionale de cercetare – ARUT, **Grant nr. GNaC2023_264/2024**

2. Cercetător Post-doctoral in proiectul: Obţinerea polimerilor cu capacitate de recunoaştere moleculară pentru sistemele de eliberare controlata de medicamente, utilizând iradierea UV ca metoda fizică de grefare, finaţat prin competiţie prin proiectul: POSDRU/89/1.5/S/63663

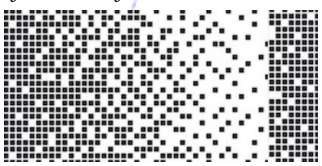
L. Premii, distincţii.

M. Alte realizări semnificative.

Data,

20.11.2025

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



Conf.dr.ing. OLARIU MARIUS ANDREI

1º Teza(-ele) de doctorat (T1, T2)

T1 „Contribuţii privind asigurarea calităţii micro şi nanomaterialelor pe baza analizei sarcinii electrice spaţiale" susţinută în data de 13.08.2009 şi 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.

(inclusiv anul, universitatea, domeniul, conducătorul de doctorat)

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

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	Ca3 Adelina-Carmen Ianculescu, Daniela C. Berger, Catalina A. Vasilescu, **Marius Olariu**, Bogdan S. Vasile, Lavinia P. Curecheriu, Andreja Gajović and Roxana Truşcă, Incorporation mechanism and functional properties of Ce-doped BaTiO3 ceramics derived from nanopowders prepared by the modified-Pechini method, în Nanoscale ferroelectrics and multiferroics, Wiley, eds.Miguel Algueró, Marty Gregg & Liliana Mitoseriu, ISBN: 978-1-118-93575-0	2
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	R49. **Olariu, M.;** Aradoaei, S.; Prisecaru, I.; Ciobanu, R, Space charge study via thermal step method and applications in new materials quality, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005 , , Management of Technological Changes, Book 1 Pages: 291-296 Published: 2005, ISBN:978-960-8475-04-5 **Accession Number: WOS:000249920000052**	5
	R50. Pislaru, M.; Schreiner, C.; Trandabat, A.; **Olariu, M**, Neuro-fuzzy system for monitoring and control in industrial processes, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005, Management of Technological Changes, Book 2 Pages: 91-94 Published: 2005, ISBN:978-960-8475-05-2 **Accession Number: WOS:000249920900016**	5
	R51. Temneanu, C.; Temneanu, M.; **Olariu, M**.; Socotar, D., Modeling the hysteretic behavior using fuzzy sets, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005 , MANAGEMENT OF TECHNOLOGICAL CHANGES, BOOK 2 Pages: 111-114 Published: 2005, ISBN:978-960-8475-05-2 **Accession Number: WOS:000249920900020**	5
	R52. Varga, C.; Socotar, D.; Hanganu, S.; **Olariu, M.,** Trandabat, A., Advanced reliability studies in microelectronics: Upon p-MOSFET structures technological reliability, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005, Management of Technological Changes, Book 2 Pages: 183-186 Published: 2005, ISBN:978-960-8475-05-2 **Accession Number: WOS:000249920900033**	4
	R53. Aradoaei, S.; **Olariu, M.;** Ciobanu, R.; Constantinescu, G, Sustainable development in materials recycling by advanced pe/pet-wood sawdust compounds, Edited by: Rusu, C; Phillis, Y, Conference: 4th International Conference on Management of Technological Changes Location: Chania, GREECE Date: AUG 19-20, 2005 , Management of Technological Changes, Book 2 Pages: 293-296 Published: 2005, ISBN:978-960-8475-05-2 **Accession Number: WOS:000249920900053**	5
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4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională	**Punctaj**
P	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	40
	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	24.99

	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	40
	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale	
	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	30
	Proiecte de mobilitate pentru tineri cercetatori din diaspora, PN-III-P1-1.1-MCT-2016-0010, PN III RU MCT 4/2016, 112 zile(3 luni) – Buget TUIASI: 11120 lei	2,49
	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, PNII PCCA2013, ctr. 43/2014, 07.2014-09.2017 – buget TUIASI 685792 lei	40
	CERCETARII ASUPRA ASIGURARII CALITATII BIO- SI NANO-MATERIALELOR CU AJUTORUL ANALIZEI SARCINII ELECTRICE SPATIALE – 2007-2008, ctr. 33GR/2007, CNCSIS 50, Tema 38, respective tema 38 – Buget TUIASI – 100000lei	20
	Platforma microfluidică pentru detecția celulelor tumorale circulante (CTC) concentrate prin dielectroforeză-magnetoforeză și analizate prin spectroscopie dielectrică și de impedanță electrochimică-uCellDetect, PN III – P2-1.2-PCCDI-3PCCDI/2018, (2018-2020), Buget TUIASI - 1586250 lei	120
	Chemirezistor serigrafiat pe bază de MXenes electromanipulate cu ajutorul dielectroforezei pentru detecția compușilor organici volatili (COV), TE2021, 2022 2024, PN-III-P1-1.1- TE-2021-0751	30
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Conf.dr.ing. 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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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

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 aparitie 2019
2. **Păuleţ Marius Valerian**, *Sisteme distribuite de monitorizare.- Îndrumar de laborator*, Editura PIM, Iaşi, pag., 142, ISBN 978-606-13-8811-0, an apariție 2024
3. **Păuleț Marius Valerian**, *Sisteme de bord informatizate – Note de curs*, Editura PIM, pag. 123, ISBN 978-606-13-8810-3, an apariție 2024
4. **Păuleț Marius Valerian**, *Sisteme de bord informatizate - Îndrumar de laborator*, Editura PIM, Iași, pag 108, ISBN 978-606-13-5222-7, an aparitie 2019
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 aparitie 2019
7. Alexandru Sălceanu, Eduard Luncă, Oana Neacşu, **Marius Păuleţ**, Silviu Ursache, *Compatibilitate electromagnetică*. Aplicaţii, Editura PIM, Iaşi, pag. 208, ISBN 978-606-13-2812-3, an aparitie 2015

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

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

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

1. Petronela-Camelia Oprea, **Marius Păuleț**, Alexandru Sălceanu, *Study upon the influence of mobile phone protective case on SAR distribution*, International Conference on Electromagnetic Fields, Signals and BioMedical Engineering 06/06/2024 - 08/06/2024 Cluj-Napoca, Romania, DOI 10.1088/1757-899X/1320/1/012022, https://iopscience.iop.org,
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 Pintea, 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 Opportunitie 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
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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. Păuleţ**, G.A. Ursan, L. Ungureanu, C. Schreiner, *Sisteme de testare senzoriale capacitive C şi 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), DOI10.1109/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 lexible Piezoelectric Sensors*, pp. 1 – 6, 2019, 11th International Symposium On Advanced Topics In Electrical Engineering (ATEE), Web of Science https://www.webofscience.com/wos/woscc/full-record/WOS:000630287500037
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*

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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 – https://www.webofscience.com/wos/woscc/full-record/WOS:000630287500088
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 https://www.webofscience.com/wos/woscc/full-record/WOS:000475904500028
18. A.Salceanu; **M. Paulet**; E. Lunca, *Upon the Effect of Transposed Phasing on the Magnetic Field Produced by Overhead Power Lines*, 2018 International Conference And Exposition On Electrical And Power Engineering (EPE 2018), 2018, DOI: 10.1109/ICEPE.2018.8559614, IEEE Xplore
19. **M. V. Păuleţ**, A. Sălceanu, *Sistem la distanţa 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. Păuleţ**, O. M. Neacşu, A. Sălceanu, *Sistem de acces securizat bazat pe recunoaşterea 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 ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

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 Emergy 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 Emergy Systems - Sielmen 2025, 16-17 Octombrie 2025 Chisinau, Republica Moldova

J. Invenții.

K. Contracte de cercetare.

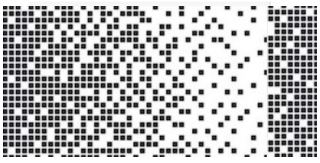
1. DIRECTOR proiect - “Cabinet medical virtual” – GnaC 2023 – 244/2024, 49771 RON
2. Membrane nanoporoase pentru pseudolivrarea intratecala a medicamentelor, ERANET-EURONANOMED-INTREPIDUS-1, nr. 193/2020, 535,700 RON, 2020-2023, 36 luni Prof. Ciobanu Romeo Cristian, Membru în echipa de cercetare
3. Biosenzori 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 energetic 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,
24.10.2025

Păuleț Marius Valerian



* Conform H.G. 1175/ 2006

Asist.drd.ing. Pingescu Bogdan-Andrei

A. Teza de doctorat.

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

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

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

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

F. Lucrări ştiinţifice 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 ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

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

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

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

Oana-Cristina Beniuga, Bogdan-Andrei Pingescu, Constantin Razvan Beniuga, Dragos Astanei, Frederik Lebeau, Radu Burlica, **„Enhancing Reactive Species Availability for Plant Growth Thorugh Plasma-Activated Water Integration in Sustainable Farming" –** International Conference on Electrocmechanical 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, Chişinau, 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. Tirşu, 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, Chişinau, 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

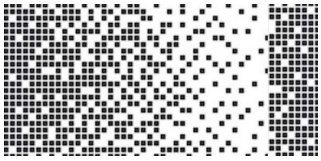
PN-IV-PCB-ROMD-2024-0382 - SynFarm: Integrarea sinergetică a panourilor fotovoltaice complexe cu sistem de dispersie a luminii și tehnologiilor de producere a apei activate cu plasmă non-termică în agricultura durabilă în sere – Membru de proiect.

PN-IV-P8-8.3-PM-RO-BE-2024-0011 - AgriPAW (colaborare Belgia ULiège - România TUIASI):
Evaluarea impactului utilizării tehnologiei cu plasmă non-termică asupra creșterii și dezvoltării plantelor în agricultura de interior. – Membru de proiect

L. Premii, distincții.
M. Alte realizări semnificative.

Data, Nume, semnătura

Pingescu Bogdan-Andrei



15/01/2026

Prof.dr.ing. **MARIAN-SILVIU POBORONIUC**

A. Teza de doctorat.

1. „Identificare şi comandă pentru conducerea roboţilor industriali" 2000, Domeniul „Sisteme Automate", Universitatea POLITEHNICA din Bucureşti, conducător doctorat: prof. dr. ing. Dumitru Popescu.

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

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d. **Poboroniuc M**., Ward A., et all. (14 coautori), *Report on a survey of existing European Higher Education Programmes orientated to the Renewable Energies and ICT Securities Technical Challenges*, SALEIE book chapter, pp.1-67, published by The University of York, Department of Electronics, Heslington, York, YO10 5DD, UK, ISBN 978-1-85911-032-4, February 2016.
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C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

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4. **M. Poboroniuc**, *Elemente de programare si control a neuroprotezelor*, Editura VENUS, Iasi, 2006, ISBN 978-973-756-036-0, pag.180 (36 rinduri/pagina).
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2. ***Strategic Alignment of Electrical and Information Engineering in European Higher Education Institutions*** (SALEIE), 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 Twining***, BRAINTWIN, tip: H2020-WIDESPREAD-2018-2020, nr.952378/26.06.2020, Coordinator: TUIASI, Marian Poboroniuc (key expert of TUIASI BrainTwin team).

Naţionale:

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 (Mănuşi 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.
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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.
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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.
11. ROKEY- 'Robot Technologies as a Key for Learning in Future' - COMENIUS project COM-08-PM-653-VS-DE - EU Life Long Learning Programme (no.4935/29.09.2008 - A.N.P.C.D.E.F.P., CONTRACT NO.127/2.10.2008). Faculty of Electrical Engineering - U.T.Iasi is associated partner of "Stefan Procopiu" Industrial High School. Contact person and coordinator of the UTI team: dr. Marian Poboroniuc. Foreign partners from: Germany, Slovak Republic, Finland and Denmark.
12. PNII project ANCS No.31CB/09.06.2008-CAPACITATI-MODUL III- Slovene-Romanian Bilateral Scientific and Technological Cooperation Project - DEVELOPMENT OF NEW NEUROPROSTHESIS AND ASSESSMENT TOOLS FOR IMPAIRED PEOPLE DUE TO A CENTRAL NERVOUS SYSTEM LESSION, Granted by National Authority for Scientific Research, Ministry of Education, Research and Youth, 2008-2009, 124395 RON, Project coordinator: Dr. Marian Poboroniuc (RO) & dr. Roman Kamnik (Slovenia)(http://neuroteh.ee.tuiasi.ro/).
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17. FES-based control of neuroprostheses to rehabilitate the subjects with movement disorders due to a CNS lesion (Tehnici de control a protezelor bazate pe stimulare electrica functionala a muschilor in recuperarea pacientilor cu handicap neuromotor datorat unei afectiuni a sistemului nervos central) (2004 - 2006), Contract no. 33371/ 29.06.2004, theme 35, Grant CNCSIS 544/2004 - Granted by The National University Research Council of Romania.
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.

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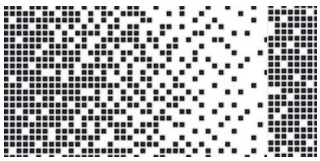
Data: 21.11.2025 **MARIAN-SILVIU POBORONIUC**



Prof.dr.ing. **PRISĂCARU GHEORGHE**

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I2. Ciprian STAMATE, Dumitru OLARU, **Gheorghe PRISACARU**, Gelu IANUS - *Rolling Friction in the Mechatronic Microsystems*, International Conference 6th Workshop on European Scientific and Industrial Collaboration on promoting Advanced Technologies in Manufacturing WESIC'08, Bucharest, 25-26 September 2008 , pp. 295 – 302
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I3. Prisacaru, G; Diaconu, I; Marta, C, et al. - *Interconnected poly(dimethyldiphenylsiloxane)/silica networks for electrical actuation*, 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, OCT 22-25, 2008 Trnava SLOVAKIA, ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM, Pages: 1145-1146
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I4. Marta, C; Doroftei, I; Suciu, L, **G. Prisăcaru** et al - *Influence of thermal field in the gmaw process: modelling and comparison with experimental results*, 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, OCT 22-25, 2008 Trnava, SLOVAKIA, ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM, Pages: 817-818 .
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I6. Doroftei, I; Marta, C; Hamat, C, **Prisăcaru, G**. et al. - *A hybrid wheel-leg mobile robot,* 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing, OCT 22-25, 2008, Trnava SLOVAKIA, ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM, Pages: 425-426.
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I7. Dumitru N. Olaru, Ciprian Stamate, **Gheorghe Prisacaru**, Peter Lorenz - *The Influence of the Atmospheric Condensed Water onFriction in a Micro Rolling Systems,*16th International Colloquium Tribology_TA Esslingen, Jan. 15-17, 2008,
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I8. Olaru.D., Dumitraşcu A.C., Stamate C. and Prisăcaru Gh - *Dynamic model to determine the rolling friction torques in microsystems for dry and lubricated conditions*, ROTRIB 2010, The 11th International Conference on Tribologi, November 4-6, Iasi, 2010
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J. Invenţii.

J1. Brevet de inventie nr. 127562 A2 - RO-BOPI 6/2012, din 29.06.2012
Titlul brevetului : *Procedeu şi microtribometru inerţial pentru studiul fenomenului de frecare de rostogolire* . Autori brevet :Olaru Dumitru, Stamate Vasile Ciprian, **Prisăcaru Gheorghe,** Ianuş Gelu
J2. Brevet de inventie nr. 127849 A2,- RO-BOPI 9/2012, din 28.09.2012
Titlul brevetului: *Microtribometru gravitaţional pin-disc pentru studiul fenomenului de frecare de alunecare*
Autori brevet : Olaru Dumitru, Stamate Vasile Ciprian, **Prisăcaru Gheorghe**, Ianuş Gelu, Dumitraşcu Alina Corina
J3. Avram M., Bucşan, C., Bogatu, L., Besnea D., **Prisăcaru Ghe.**, DISTRIBUITOR PNEUMATIC PROPORŢIONAL CU ACTUATOR ELECTROMECANIC, 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)

Finanţator: Fondul Social European prin Programul Operaţional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013

Beneficiar: Universitatea Tehnică din Cluj-Napoca

Partener 5: Universitatea Tehnică „Gheorghe Asachi" din Iaşi

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 acţionare realizate cu noi tipuri de actuatori pentru aplicaţii în robotica şi în alte domenii"
Finanţator: UEFISCDI
Coordonator: Universitatea Tehnică din Cluj-Napoca

Partener 2: Universitatea Tehnică „Gheorghe Asachi" din Iaşi
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 studenţilor
Finanţator: CNFIS
Contractor: Universitatea Tehnică „Gheorghe Asachi" din Iaşi
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): S*tudiul tribologic al contactului capat rola-umar de ghidare in rulmenti cu role cilindrice sub sarcina combinata pe perioada rodajului*
Finanţator: CNCSIS
Contractor: Universitatea Tehnică „Gh. Asachi" din Iaşi
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*
Finanţator: ANSTI
Contractor: Universitatea Tehnică „Gheorghe Asachi" din Iaşi
Director grant: conf.dr.ing. Gheorghe PRISĂCARU
Valoare: 45800000 ROL (2996 €)
K6. Grant 33/2007 – *Polimerii electroactivi (PEA) – o noua clasa de actuatori neconventionali*
Finanţator: CNCSIS
Contractor: Universitatea Tehnică „Gheorghe Asachi" din Iaşi
Director grant: conf.dr.ing. Gheorghe PRISĂCARU
Valoare: 128000 RON
K7. Proiect Leonardo PL 91229/EX din **1994** cu tema „*Instruirea inginereasca de tip mecatronic – o necesitate in societatea informationala (Engineering training of mechatronic type – a necessity for the informational society)"*
Finanţator: Agenţia Naţională Leonardo - România
Contractor: Universitatea Tehnică „Gheorghe Asachi" din Iaşi
Director proiect: conf.dr.ing. Gheorghe PRISĂCARU
Valoare: 10980 €
K8. Contract nr. 4286/1990 - *Studii şi cercetări privind fiabilitatea rulmenţilor funcţionând în condiţii de mediu contaminat*

Finanţator: Intreprinderea de Rulmenţi Bârlad
Contractor: Universitatea Tehnică „Gheorghe Asachi" din Iaşi
Director proiect: conf.dr.ing. Gheorghe PRISĂCARU
Valoare: 90000lei (4091$)
K9. POSDRU/87/1.3/S/61397 - Reţea Naţională de Formare CONtinuă a CadrelOR Didactice din Învăţământul Preuniversitar Profesional şi Tehnic **–** CONCORD
Finanţator: Fondul Social European prin Programul Operaţional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013
Beneficiar: Universitatea "Politehnica" Bucureşti
Partener 2: Universitatea Tehnică „Gheorghe Asachi" din Iaşi
Expert operaţional (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 Iaşi
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 Iaşi
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 Iaşi
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 Iaşi
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 Iaşi
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* - finanţat de Bancamondială
Autoritatea Contractanta - CNCSU cu finantare de la Banca Mondiala
Contractor: Universitatea Tehnică „Gh. Asachi" din Iaşi
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 Iaşi
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 încarcari combinate si turatii ridicate*
Autoritatea Contractanta - MCT
Contractor: Universitatea Tehnică „Gh. Asachi" din Iaşi
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 solicitare limitasi turatii ridicate*
Autoritatea Contractanta - MCT
Contractor: Universitatea Tehnică „Gh. Asachi" din Iaşi
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 Iaşi
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 şi canalizare şi găsirea unor soluţii eficiente de inchidere 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 $)

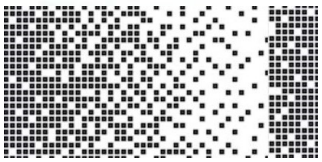
K28. Proiect transfrontalier: *2SOFT/1.1/64 – CBCinMEE Cross border cooperation in mechatronics engineering education* **–(2020-2022)**
Beneficiar lead: Universitatea Tehnică a Moldovei
Beneficiary 1: Universitatea Tehnică Gheorghe Asachi din Iaşi
Responsabil de proiect : conf.dr.ing. Gelu Ianuş
Membru 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 Iaşi
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.

* Conform H.G. 1175/ 2006
Data,

1.09.2025

Nume, semnătura
Prof.dr.ing. Gheorghe PRISĂCARU



Lector dr. MONICA SALCIANU

A. **Teza de doctorat:** "*Cercetări privind îmbunătăţirea metodelor de proiectare a reţelelor de comunicaţie din cadrul autovehiculelor*" U.T. Iaşi, 2012, 185 pg., îndrumător Prof.univ.dr.ing. CRISTIAN FOŞALĂU

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

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri reunoscute CNCSIS

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

E. Cărţi (mnuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. **Sălcianu Monica**, Foşalău Cristian and Hariton Anamaria, *Simulation of an inteligent-adaptive front-lighting system*, Bul. Inst. Polit. Iaşi, t. LVII (LXI), f. 5, 2011, pp. 79-91.
2. **Sălcianu Monica**, Foşalău Cristian and Hariton Anamaria, *A new can simulator for a rain sensing system using LabVIEW*, Bul. Inst. Polit. Iaşi, t. LVII (LXI), f. 5, 2011, pp. 69-78.
3. Hariton Anamaria, Niţă Lucian, Creţu Mihai and **Sălcianu Monica**, *Outer gate automation using microcontrollers and radio frequency communication,* Bul. Inst. Polit. Iaşi, t. LVII (LXI), f. 5, 2011, pp. 119-128.
4. Hariton A., Creţu M., Niţă 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 ştiinţifice publicate în volumele conferinţelor.

I1. ***Articole în volumele conferinţelor internaţionale din ţară***

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 (acceptată pentru publicare şi prezentare).**
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.

24.11.2025 **Monica Salcianu**

S.l.dr.ing. SEREA ELENA

A. Teza de doctorat.

Utilizarea supercondensatoarelor ca sursă de energie în microrețele, 2014, Universitatea Tehnică Gheorghe Asachi din Iași, domeniul inginerie electrică, conducător științific prof. univ. dr.ing. Gheorghe Livinț.

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

1. Elena Serea, New approach on energy storage technologies based on supercapacitors, Lambert Academic Publishing, Germany, 2017. ISBN 978-3-659-45348-9
2. Elena Serea, Light pollution effects and solutions, Lambert Academic Publishing, Germany, 2023. ISBN 978-620-6-14361-1

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

1. Elena Dănilă, Adrian Adăscăliței. Tehnici informatice si de comunicații pentru administrarea afacerilor, ISBN 978-606-685-126-8, Ed.Performantica Iași, 2014.
2. Dorin Lucache, Georgel Paicu, Gabriel Chiriac, Elena Dănilă. Utilizari ale energiei electrice. Aplicatii 2014. ISBN 978-606-13-2036-3
3. Elena Serea, Dorin Dumitru Lucache. Managementul Iluminatului Public si Arhitectural. Aplicatii. 2025. ISBN 978-606-13-7503-5

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

-Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

-Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Dorin Lucache, Adrian Bulgaru, Dan Ioachim, Elena Dănilă, On electro-dewatering a cellulosic sludge, Environmental Engineering and Management Journal, vol. 8, nr. 2, apr. 2009, ISSN 1582-9596 , pg.266-271. IF=0.9
2. Serea Elena, Penciuc, M.; Temneanu, M.C.; Donciu, C. Video Distance Measurement Technique Using Least Squares Based Sharpness Cost Function. Mathematics 2022, 10, 3273. IF=2.2
3. Donciu, C.; Serea Elena; Temneanu, M.C. Frequency Seismic Response for EEWS Testing on Uniaxial Shaking Table. Entropy 2023, 25, 655. IF = 2
4. Temneanu M.C, Donciu C., Serea Elena, Self-Contained Earthquake Early Warning System Based on Characteristic Period Computed in the Frequency Domain, Applied Sciences 2025, 15(16), 9026. IF = 2.5
5. Serea Elena; Donciu, C.; Temneanu, M.C. Modular System for High-Precision Irrigation with Nutrients Addition. Applied Sciences 2025, 15, 8819. IF = 2.5
6. Balan, G., Neninger, P., Ruiz Zúñiga, E., Serea Elena, Lucache, D. D., Sălceanu, A. A Perspective on Software-in-the-Loop and Hardware-in-the-Loop Within Digital Twin Frameworks for Automotive Lighting Systems. Applied Sciences, 2025, 15(15), 8445. IF = 2.5
7. Donciu Codrin, Temneanu Marinel, Serea Elena, PV Panels Fault Detection Video Method Based on Mini-Patterns. AppliedMath 2025, 5, 89. IF = 0.7
8. Donciu Codrin, Serea Elena, Temneanu Marinel, Frequency domain estimation method of the characteristic period of the P wave of earthquakes. Frontiers in Physics, 2025,13:1496451. IF = 2.1
9. Temneanu M.C, Donciu C., Serea Elena, Distance Measurement Between a Camera and a Human Subject Using Statistically Determined Interpupillary Distance. AppliedMath 2025, 5, 118. IF = 0.7

10. Donciu Codrin, Serea Elena, Temneanu Marinel, Residential Electricity Consumption Behaviors in Eastern Romania: A Non-Invasive Survey-Based Assessment of Consumer Patterns. Energies 2025, 18, 4883. IF=3.2
11. Serea Elena; Donciu, C.; Temneanu, M.C., Complexities of lighting measurement and calculation, Metrology 2025, 5(4), 61; IF = 1.5
12. Donciu Codrin, Temneanu Marinel, Serea Elena, Direct FFT oversampling without zero-padding, Scientific Reports 2025, 15:37269, IF=3.9
13. Elena Dănilă, Cătălin Damian, Dorin Dumitru Lucache, Energy management in a laboratory computer grid, Buletinul AGIR nr.2 aprilie-iunie 2012, ISSN – L 1224-7928 (BDI: Index Copernicus International, ICV 2012 5,14), DOI: 10.13140/2.1.4087.8406.
14. Cătalin Damian, Cristian Zet, Elena Dănilă. Minimizing the FIR filter area used in a FPGA power computing instrument, Buletinul AGIR nr.2 aprilie-iunie 2012, ISSN – L 1224-7928 (BDI: Index Copernicus International, ICV 2012 5,14).
15. Elena Dănilă, Dorin Lucache, Cost effectiveness of growing plant lighting system, Journal of Electrical Engineering, 2013, 13(4), pp. 224–229
16. Elena Dănilă, Dorin Dumitru Lucache, Autonomy improvement of data center backup sources with supercapacitors, Acta Electrotehnica Journal (BDI: VINITI), volume 54, no.5, 2013, ISSN 1841-3323, pg. 147-152. DOI: 10.13140/2.1.3825.6968.
17. Lucache D.D., Galatanu D.C., Dănilă Elena, Factors Involved in Choosing LEDs for General Lighting Applications: a Critical Review, Analele Universitatii din Craiova, Serie Inginerie electrica, Anul 39, nr.39, ISSN 1842-4805, pp. 138-143, 2015.
18. Elena Dănilă, Gheorghe Livinţ, Electrical parameter estimation of supercapacitor with equivalent model, Buletinul Institutului Politehnic din Iaşi, Tomul LXI (LXV), Fasc. 1, 2015, Secţia Electrotehnică. Energetică. Electronică, pg. 27-36
19. Elena Dănilă, Dorin Dumitru Lucache, PV power source estimation for a custom-designed growing-plant lighting system, Acta Electrotehnica, Proccedings of 6th International Conference on Modern Power Systems 2015, pg. 77-82
20. Serea Elena, Roco Nelca. Particularities in the Design of Underwater Lighting Systems. Journal of Civil Engineering and Architecture 16 (2022): 420-424.
21. Serea Elena, Donciu Codrin. Eye safety awareness and visual impairment prevention for computer users. Journal of Clinical Research Ophthalmology 2022, 9(2): 022-024. DOI: 10.17352/2455-1414.000099
22. Serea Elena, Penciuc Mihai, Temneanu Marinel, Donciu Codrin, Video distance measurement method based on three focus positions, 2022, Buletinul Institutului Politehnic din Iaşi, vol.68 (72), No.1, pp.9-16, DOI 10.2478/bipie-2022-0001.
23. Serea Elena, Donciu Codrin. Shaking Table Design for Testing Earthquake Early Warning Systems. Designs 7.3 (2023): 72.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

2. Livinţ, G., Lucache, D. D., Dănilă, Elena. On controlling the magnetic suspension of a flywheel system, Rev. Meridian Ingineresc. 2010, nr. 4, pp. 26-30. ISSN 1683-853X.
3. Elena Serea, How artificial lighting can became a health issue, Academia Letters august 2021, DOI: 10.20935/AL2825.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

-Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Dorin Lucache, Adrian Bulgaru, Dan Ioachim, Dănilă Elena, Management of the sludge wastes in the pulp and paper industry. The 6th International Conference On Management Of Technological Changes, Greece 2009, ISBN (vol.2) 978-960-89832-8-1, pg.113-116.
2. Elena Dănilă, Dorin Lucache, Cătălin Damian, Risks in change management of engineering higher education, 6th International Seminar on Quality Management in Higher Education 2010 ISI Proceedings, pg.51-55, ISBN: 978-973-662-568-8.
3. Elena Dănilă, Dorin Lucache, Dan Ioachim, Improving quality of learning during practical laborators by using preformed (standard) reports" - 6th International Seminar on Quality Management in Higher Education 2010 ISI Proceedings, pg.407-411, ISBN: 978-973-662-

4. Elena Dănilă, Rachid Outbib, Dorin Dumitru Lucache Supercapacitors and risk reduction in energy supply, 6th International Conference on Electrical and Power Engineering Iaşi 2010, ISBN vol.II : 978-606-13-0078-5, pg.95-98
5. Elena Dănilă, Dorin Dumitru Lucache, Gheorghe Livinţ, Models and modelling supercapacitors for a defined application, 8th international conference on electromechanical and power systems, Annals of the University of Craiova, Electrical Engineering series, No. 35, 2011; ISSN 1842-4805, pg.200-205.
6. Rakotomalala L.F.F, Randriamanantany Z.A, Dorin Dumitru Lucache, Elena Dănilă, Energetic aspects of the HID ballast used in the outdoor lighting, International Conference and Exposition on Electrical and Power Engineering, 2012, pg. 340-346, ISBN 978-1-4673-1173-1.
7. Elena Dănilă, Dorin Lucache, Run-time optimization of hybrid energy source from an UPS back-upping critical consumer, 14th International Conference on Optimization of Electrical and Electronic Equipment 2014, IEEE Explore și ISI Proceedings, pg.661-666, ISBN 978-1-4799-5183-3. DOI: 10.1109/OPTIM.2014.6850942.
8. Rakotomalala Lovasoa F.F., Zely R. Kebe, Fadel C.M., Elena Dănilă, Lucache Dorin D.,High energy saving for Africa street lighting using individual automatic dimming of HID ballasts, International Conference and Exposition on Electrical and Power Engineering 2014, pg. 683-688, IEEE Explore DOI: 10.1109/ICEPE.2014.6969996.
9. Elena Dănilă, Daniel Sticea, Gheorghe Livinț, Dorin Dumitru Lucache, Hybrid backup power source behaviour in a microgrid, Proccedings of International Conference and Exposition on Electrical and Power Engineering 2014, pg. 637-641, ISSN 978-1-4799-5848-1, IEEE Explore DOI: 10.1109/ICEPE.2014.6969987
10. Elena Dănilă, Gheorghe Livint, Dorin Dumitru Lucache. Dynamic modelling of supercapacitor using artificial neural network technique. 2014 International Conference and Exposition on Electrical and Power Engineering. IEEE, 2014.
11. Elena Dănilă, Dorin Dumitru Lucache, Efficient Lighting System for Greenhouses, International Conference and Exposition on Electrical and Power Engineering 2016, 978-1-5090-6129-7/16.
12. Rakotomalala Lovasoa, Randriamanantany Zely, Dorin Dumitru Lucache, Elena Dănilă, Lens impact investigation on photometric parameters of some LED luminaires for exterior lighting, 2016 International Conference on Applied and Theoretical Electricity (ICATE), DOI: 10.1109/ICATE.2016.7754677.
13. Yosef Elia; Dorin Dumitru Lucache; Elena Serea, Battery Energy Storage Applications: Two Case Studies, 2019 8th International Conference on Modern Power Systems (MPS), DOI: 10.1109/MPS.2019.8759797.
14. Elena Serea, D. D. Lucache, Consequences of Inappropriate Use of Architectural Lighting, 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 016-021.
15. George Balan, Serea Elena, Dorin Dumitru Lucache, Critical Issues in the Design and Operation of Electrical Installations in Hospitals, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 503-510, doi: 10.1109/SIELMEN53755.2021.9600413.
16. Elena Serea, M. C. Temneanu, C. Donciu, M. Berdan, Influence of Household Tools in Regional Configuration of Earthquake Early Warning Systems, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2022, pp. 376-381, doi: 10.1109/EPE56121.2022.9959812.
17. Elena Serea, M. C. Temneanu, C. Donciu, G. Roşu, Video Method for Estimating the Apparel Worn Size, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2022, pp. 364-367, doi: 10.1109/EPE56121.2022.9959746.
18. Elena Serea, M. C. Temneanu,,C. Donciu, Opto-Guard: Non-invasive System of Continuous User Assurance of Keeping the Optimal Distance of the Eyes from the

Computer Screen, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2022, pp. 1-5, doi: 10.1109/EPE56121.2022.9975793.
19. D. D. Lucache, Y. Elia, Elena Serea, C. D. Gălăţanu, Grid support by BESS. Benefits for a Solar Thermal Plant, 2023 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2023, pp. 1-7, doi: 10.1109/MPS58874.2023.10187444.
20. Balan, G., Serea Elena, Andriniriniaimalaza, F. P., Lucache, D. D., Sălceanu, A., Nenninger, P. Digital Twin Approach for Headlamps Testing and Control. In 2025 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2025 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) (pp. 1-7). IEEE.
21. Balan, G., Serea Elena, A Cost-Effective Continous Thermal Monitoring Solution for Electrical Panels Using Thermocouples, 2025 International Conference on Electromechanical and Energy Systems (SIELMEN),
22. Elena Dănilă, Dorin Lucache, Dan Ioachim. Efficiency of some growing light systems for tomatoes. Proc. of 7th International Conference on Electromechanical and Power Systems, October 8-9, 2009 – Iasi, Romania, Vol.II, pp. II-376 – 379, ISBN vol. II 978-606-520-623-6, DOI: 10.13140/2.1.3661.8562.
23. Elena Dănilă, Gabriel Chiriac, Daniel Sticea. Supercapacitors to future storage devices. Proceedings of the 7th International Conference of Electromechanical and Power Systems, Editura PIM, 2009, vol. II, pp. 380 –383, ISBN vol II, 978-606-520-623-6.
24. Gabriel Chiriac, Daniel Sticea, Gheorghe Livinţ, Dorin Lucache, Elena Dănilă. Tendencies in electric and hybrid electric vehicles batteries, 7th international conference on electromechanical and power systems SIELMEN, Editura PIM, 2009, vol. II, pp. 181-186, ISBN vol II, 978-606-520-623-6, October 8-9, 2009, Iaşi, Romania.
25. Elena Dănilă, Dorin Lucache. History of the first energy storage systems", IEEI 2010, 3rd International Symposium on the History of Electrical Engineering and of Tertiary-level Engineering Education, ISBN: 978-606-13-0052-5, pg. 9-10, DOI: 10.13140/2.1.1564.7040.
26. Dorin Dumitru Lucache, Cătălin Daniel Gălățanu, Elena Dănilă. Critical Analysis of Investment in LEDs for General Lighting Applications, Proceedings of the 10th International Conference on Electromechanical and Power Systems, 2015, ISBN 978-606-567-284-0, pg.74-77.
27. Dorin Dumitru Lucache, Yosef Elia, Catalin Daniel Gălăţanu, Elena Dănilă, Outlook on connecting BESS to a Solar Thermal Plant, June 2022, Conference: Alternative Energy Sources, Materials and Technologies At: Veliko Tarnovo, Bulgaria.

I. Invenţii.

-Contracte de cercetare.

1. Sistem de control si monitorizare în timp real a irigațiilor, pentru optimizarea consumurilor de energie și apă, cod SMIS 338187, PR/NE/2024/P1/RSO1.1_RSO1.3/1
2. Opto-Guard, GI / MedTech_5 /2022, CNFIS-FDI-2022-0460

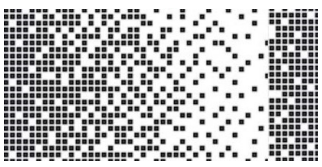
J. Premii, distincţii.

K. Alte realizări semnificative.

Data, Nume,
semnătura

28.10.2025 SEREA Elena

* Conform H.G. 1175/ 2006



Șef de lucrări dr. ing. mat. Corneliu Eugen Șfartz

A. Teza de doctorat.

„Studiul unor fenomene de vibraţii cu aplicaţii la sistemele inginereşti“, Univ. Tehnică “Gh. Asachi” Iaşi, 1999.

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

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

E. Sfartz - „Funcţiile - wavelet în identificarea sistemelor – aplicaţii la sisteme mecanice, Editura “Gh. Asachi”, Iaşi, 2000.

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

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

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Condurache, D., Șfartz, E. – Exact Closed-Form Solutions of the Motion in Non-Inertial Reference Frames, Using the Properties of Lie Groups SO3 and SE3, *Symmetry* **2021**, *13*(10), 1963; https://doi.org/10.3390/sym13101963

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G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Poteraşu, V.F, Ibănescu, R., Şfartz, E - Identificarea neparametrică a sistemelor dinamice neliniare cu metoda balanţei armonice. Aplicaţii la cuplaje mecanice şi absorbitori dinamici, Studii şi Cercetări de Mecanică Aplicată, tom 52, nr. 6, pg. 483 – 501, 1993.

2. Poteraşu, V.F, Ibănescu, R., Şfartz, E - Frequency Identification of a Linear System Provided with a Dynamic Vibration Absorber, Buletinul Institutului Politehnic din Iaşi, tom XL (XLIV), fasc. 1-4, secţia V, pg. 69 – 73, 1994.

3. Şfartz, E. - Wavelets in Machinery Diagnosis, Buletinul Institutului Politehnic din Iaşi, tom XLV (XLIX), fasc. 1-2, secţia Construcţii de Maşini, pg. 51 – 63, 1999.

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6. Şfartz, E., Ribeiro, A.M.R. - Modelling and Identification of a Single-Degree-of-Freedom System with General Damping, Buletinul Institutului Politehnic din Iaşi, tom LI (LV), fasc. 3-4, Secţia Matematica, Mecanica Teoretica, Fizica, pg. 33 – 44, 2005.

7. Vremeră, E., Sfartz, E., Brunetti, L. - Modelling of Bolometric Sensors, Buletinul Institutului Politehnic, Iaşi, tom LI (LV), fasc. 3-4, Sectia Electrotehnică, Energetică, Electronică, pg. 81-94, 2005.

8. Vremeră, E., Brunetti, L., Sfartz, E. - Fitting Curve Method in Accelerated Microcalorimeter Measurements, Buletinul Institutului Politehnic, Iaşi, tom LII (LVI), fasc 5, Sectia Electrotehnică, Energetică, Electronică, pg 1112-1120, 2006.

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3. Vremeră, E., David, V., Şfartz, E. - Measurements in the Radiofrequency Range on Absorbing and Shielding Materials, 15th IMEKO TC4 Intl. Symposium on Novelties in Electrical Measurements Instrumentation, Iasi, Sept 2007, vol. I, p 64-68.

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J. Invenţii.

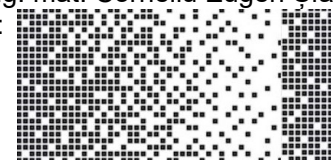
K. Contracte de cercetare/granturi.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
01.12.2025

Nume, semnătura
Șef de lucrări dr. ing. mat. Corneliu Eugen Șfartz
Semnătura:



* Conform H.G. 1175/ 2006

S.l.dr.ing. **Daniel STICEA**

A. Teza de doctorat.

A. "Sisteme de control distribuit de pe vehicule electrice.", domeniul Inginerie Electrică, conducător prof. Dr. Ing. Gheorghe Livinţ, Universitatea Tehnica "Gheorghe Asachi" din Iasi, 2011

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

1.

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

1. **D. Sticea**, Sisteme de control distribuit de pe vehicule electrice hibride, Editura Politehnium (cod CNCSIS 211), Iaşi, 194 pag. (38 rânduri/pagină) 2011, ISBN 978-973-621-355-7, 2011.

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

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

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

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. Livinţ, V. Horga, **D. Sticea**, M. Răţoi, M. Albu, Electrical drive systems control on a hybrid vehicle model, Bul. Inst. Polit. Iaşi, LVI(LX), s. Electrot., Energ., Electron., pp. 103 – 115, (2010) (Index Copernicus)
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7. Danut Constantin Irimia, Alina Georgiana Baciu, **Daniel Adrian Sticea**, Marian Silviu Poboroniuc, *New Fes-robotic glove hyybrid system for hand motor functions rehabilitation*, A XIX Conferință Națională a Acționărilor Electrice, (2018)
8. Elena Dănilă, **Daniel Sticea**, Gheorghe Livinț, Dorin Dumitru Lucache, "Hybrid backup power source behaviour in a microgrid", Proccedings 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 Livint,"The Bidirectional Power Exchange Using a DC/DC Converter with Coupled Inductances" Proccedings 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 Fosalau and Gabriel Chiriac," Low-Cost Low-Power Microgrid with Photovoltaic Panels", Proccedings 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 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

J. ***Invenţii.***

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, Coodinator: University of Bucharest; Project responsible TUIASI: Marian Poboroniuc.
2. Membru in: Contract nr. 16052P/07.09.2017,
   C*ercetari 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 Nemeş, 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. Baciu, Daniel A. Sticea, Andrei I. Roman, Piseru Andrei

L. **Premii, distincţii.**

1. Marian-Silviu Poboroniuc, Danut Irimia, Daniel Sticea, Georgel Paicu, Antonela Curteza, Laura Macovei, Virica Cretu, Maria Buzdugan, Tania Cernea, CYBER-ARM: SIsteme mecatornice 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: "Inteligent Systems Award " si Medalia de aur.

M. Alte realizări semnificative.

Data,
27.10.2025

șef lucr. dr. ing. Daniel STICEA

Prof.dr.ing. SCHREINER CRISTINA MIHAELA

1º Teza(-ele) de doctorat (T1, T2)

Modelarea stărilor de defectare ale unui sistem electromecanic echipat cu m.l.i. utilizând reţele neuro-fuzzy, Universitatea Tehnică "Gh.Asachi" din Iaşi, 1998, 192 pg

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

Ca	**Carte/ curs/ manual publicată în străinătate**
	Ca1
	Ca2
	...
	Capitol carte/ curs/ manual publicat în străinătate
	...
	...
	Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)
	1.FIABILITATE, MENTENANTA SI DIAGNOZA, TEORIE SI EXEMPLE I. Schreiner C., Ciobanu R., Temneanu M., 199 pag., 1999, Ed. Universitatea Tehnica Gheorghe Asachi Iasi, Romania,
	2. ETICA TEHNICA SI A AFACERILOR, Schreiner C., Ciobanu R., Hutu C., 186 pag., 2002, Ed. Gh. Asachi, Iasi, Romania, ISBN 973-8292-72-7
	Capitol curs/ manual publicat în editură recunoscută CNCS
	…
I	Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)
	1. CALITATE, FEZABILITATE SI FIABILITATE, APLICATII, Schreiner C., Ciobanu R., Temneanu M., 209 pag, 1997, Ed. Universitatea Tehnica Gheorghe Asachi Iasi
D	**Sisteme de laborator funcţionale**
W	**Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.**
	1. Ciobanu R., Schreiner, C., Spiridonica A. M., Statistica si prelucrarea datelor, 166 pag, 2012, Universitatea Tehnica Gheorghe Asachi Iasi, http://rciobanu.wix.com/curs# !books/c65q

3º Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

B	**Capitol carte de specialitate publicată în editură din străinătate** - **Carte de specialitate/ capitol publicat în editură din ţară, recunoscută 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, 2. ETICA TEHNICA SI A AFACERILOR, Schreiner C., Ciobanu R., Hutu C., 186 pag., 2002, Ed. Gh. Asachi, Iasi, Romania, ISBN 973-8292-72-7 3. SOME TECHNICAL AND ETHIC ASPECTS REGARDING TQM IMPLEMENTATION WITHIN SMES, IN MANAGEMENT OF TECHNOLOGICAL CHANGES, Schreiner C., Ciobanu R., Hutu C., 361-369 pag., 2001, EDITOR C. RUSU – Ed. Economica Bucuresti, Romania, ISBN 973-590-580-9 4. EXPERT SYSTEMS FOR TQM IMPLEMENTATION AND SURVEY DEDICATED TO SMES, IN MANAGEMENT OF TECHNOLOGICAL CHANGES, Ciobanu R., Schreiner C., Hutu C., 370-379 pag 2001, C. RUSU EDITOR – Ed. Economica Bucuresti, Romania, ISBN 973-590-580-9 5. SISTEME EXPERT DE ASIGURARE A CALITATII IN INDUSTRIE SI SERVICII, Baraboi A., Ciobanu R., Schreiner C., 166 pag 2002, Ed. Politehnium, Iasi, Romania, ISBN 973-8292-7 6. CERCETARI PRIVIND CALITATEA SI FIABILITATEA IN INGINERIA ELECTRICA, Schreiner C., Adam M., Ciobanu R., 143 pag., 2003, Ed. Politehnium, Iasi, Romania, ISBN 973-621-031-6 7. ADVANCED ON QUALITY AND RELIABILITY ASSURANCE OF ELECTRICAL MATERIALS, Schreiner C., Ciobanu R., Temneanu M., 136 pag., 2002, Ed. Politehnium, Iasi, Romania, ISBN 973-8292-24-7 8. STUDII PRIVIND CALITATEA SI FIABILITATEA IN INGINERIA ELECTRICA, Schreiner C., Ciobanu R., Baraboi A., 189 pag., 2003, Ed. Politehnium, Romania, ISBN 973-621-032-4 9. INVESTIGAŢII TEHNICO-ANALITICE SPECIFICE MINIMIZĂRII SCĂZĂMINTELOR TEHNOLOGICE ÎN INDUSTRIA ALIMENTARĂ: INVESTIGAŢII TEHNICO-ANALITICE, Schreiner C., Ciobanu R., Tulbure M., Editura PIM Iasi (2010), ISBN 978-606-520-671-7 10. CERCETĂRI PRIVIND UTILIZAREA MĂSURĂRILOR DISTRIBUITE ÎN CADRUL SISTEMELOR DE ASIGURARE A CALITĂŢII INDUSTRIALE, Trandabăţ A., Schreiner C., Pîslaru M., Editura PIM Iasi (2009), ISBN 978-606-520-673-1 11. CERCETĂRI PRIVIND UTILIZAREA MODELELOR NEURO-FUZZY ÎN CADRUL SISTEMELOR DE ASIGURARE A CALITĂŢII, Pîslaru M., Schreiner C., Trandabăţ A., Editura PIM Iasi (2009), ISBN ISBN 978-606-520-676-2 12. STUDII PRIVIND CALITATEA SI FIABILITATEA IN INGINERIA ELECTRICA, Schreiner C., Ciobanu R., Baraboi A., 189 pag., 2003, Ed. Politehnium, Romania, ISBN 973-621-032-4
R	**Articol publicat în revistă cotată ISI, cu factor de impact** 1. Mihaela Aradoaei, Romeo C. Ciobanu, Cristina Schreiner, Andrei G. Ursan, Elena G. Hitruc, Magdalena Aflori, Thermoplastic Electromagnetic Shielding Materials from the Integral Recycling of Waste from Electronic Equipment, Polymers Journal 2023, Volume 15, Issue 19, 3859, DOI: 10.3390/polym15193859, WOS: 001083084200001.

	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, WOS:001143872900006. 3. Mihaela Aradoaei, Romeo C. Ciobanu, Cristina Schreiner, Marius Paulet, Alina R. Caramitu, Jana Pintea, 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. 4. Alina R. Caramitu, Romeo C. Ciobanu, Ioana Ion, Cristina M. Schreiner, Mihaela Aradoaei, Violeta Tsakiris, Jana Pintea, Virgil Marinescu, Flexible Electromagnetic Shielding Nano-Composites Based on Silicon and NiFe2O4 Powders, Polymers Journal 2023, Volume 15, Issue 11, 2447, DOI: 10.3390/polym15112447, WOS:001005724100001. 5. Romeo C. Ciobanu, Radu F. Damian, Cristina M. Schreiner, Mihaela Aradoaei, Alexandru Sover, Askok M. Raichur, Simulation of Dielectric Properties of Nanocomposites with Non-Uniform Filler Distribution, Polymers Journal 2023, Volume 15, Issue 7, 1636, DOI: 10.3390/polym15071636, WOS:000970081800001. 6. Romeo C. Ciobanu, Mihaela Aradoaei, Alina R. Caramitu, Ioana Ion, Cristina M. Schreiner, Violeta Tsakiris, Virgil Marinescu, Elena G. Hitruc, Magdalena Aflori, Special Packaging Materials from Recycled PET and Metallic Nano-Powders, Polymers Journal 2023, Volume 15, Issue 15, 3161, DOI: 10.3390/polym15153161, WOS:001046370500001. 7. Romeo C. Ciobanu, Cristina M. Schreiner, Mihaela Aradoaei, Gabriele E. Hitruc, Bogdan G. Rusu, Magdalena Aflori , Characteristics of Composite Materials of the Type: TPU/PP/BaTiO3 Powder for 3D Printing Applications, Polymers Journal 2023, Volume 15, Issue 1, 73, DOI: 10.3390/polym15010073, WOS: 000909131900001. 8. Alina Ruxandra Caramitu, Ioana Ion, Adriana Mariana Bors, Cristian Romeo Ciobanu, Cristina Schreiner, Mihaela Aradoaei, Ana-Maria Daniela Caramitu, Physico-chemical characterization of paint films with electromagnetic properties, Revista Materiale Platice, 2022, Volumul: 59, nr. 2, pp 9-23, DOI: 10.37358/MP.22.2.5580, WOS:000831634900002. 9. RC Ciobanu, C Schreiner, R Damian, High frequency electromagnetic energy phenomena in chiral dielectric structures with distributed and localized conductive insertions, Composites Part B: Engineering 160, 241-248 10. AD La Rosa, SA Grammatikos, RC Ciobanu, C Schreiner, Electromagnetic Shielding for Buildings Using Hybrid Polymer Composites: A Life Cycle Assessment Study, Key Engineering Materials 827, 452-457

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R'	1. Ciobanu R., C. Schreiner, W. Pfeiffer, Advanced Partial Discharge measurements in support of cellulose materials quality, Cellulose Chemistry and Technology, May-August 2004, v.39, n 3-4, pp.187-196 (IF= 2.082)

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V	**Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)** 1. Limits and Particularities of the Synthesis of Ba1-xCaxTiO3 for Piezoelectric Applications, by Topochemical Conversion from Molten Salt Solutions Vlaicu, ID; Maraloiu, AV; Ciobanu, RC, Schreiner, C; Plopa, O 10th International Conference and Expositions on Electrical and Power Engineering (EPE) 2018 2. Aided Decision Making for Hybrid Energy Systems Planning in Micro-Grids Scarlatache, F; Grigoras, G; Schreiner, C; Ciobanu, RC 2018 SMART CITY SYMPOSIUM PRAGUE (SCSP) 3. Patterns Discovery of Load Curves Characteristics Using Clustering Based Data Mining Neagu, B; Grigoras, G; Schreiner, C; Ciobanu, R 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2017 4. Identification of pilot nodes for secondary voltage control using K-means clustering algorithm Grigoras, G; Neagu, BC; Schreiner, C; Ciobanu, RC 26th IEEE International Symposium on Industrial Electronics (ISIE) 2017 5. Influence of Hybrid Energy Systems on Micro-Grids Control Scarlatache, F; Grigoras, G; Schreiner, C; Ciobanu, R 11th IEEE International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2017 6. LTCC-based Ceramic Microsystems with Integrated Fluidic Elements and Sensors Belavic, D; Hodnik, M; (...); Ciobanu, R, Schreiner, C 9th International Conference and Exposition on Electrical and Power Engineering (EPE) 2016 7. Sensors in LTCC-technology with embedded microfluidic features, for medical applications Ciobanu, R; Schreiner, C; (...); Antal, D 2015 IEEE International Symposium on Medical Measurements and Applications (MEMEA 2015) 2015 8. Dielectric spectroscopy of biological tissues with targeted Fe2O3drug delivery systems in support of RF/MW -hyperthermal control Ciobanu, R and Schreiner, C 9th IEEE International Symposium on Medical Measurements and Applications (IEEE MeMeA) 2014 9. Nano-structured electromagnetically-active adhesives for innovative assembling-disassembling technologies Ciobanu, R; Schreiner, C; (...); Verna, E 11th IEEE International Conference on Solid Dielectrics (ICSD) 2013 10. Comparative Analysis versus Frequency of Inception Voltage of Partial Discharges Phenomena and Breakdown Strength, in Support of Quality Assessment of Insulating Materials Ciobanu, R and Schreiner, C 9th International Symposium on Measurement Technology and Intelligent Instruments 2010 11. INVESTIGATION OF THE HEXACHIRAL HONEYCOMB EMC PROPERTIES BY FULL WAVE ELECTROMAGNETIC SIMULATION Ciobanu, RC; Schreiner, C and Damian, RF 23rd European Conference on Modelling and Simulation (ECMS) 2009 12. Evaluation via PEA measurements of paper-oil insulation submitted to gamma radiation

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13. Broadband Partial Discharges Technique and Application in the field of cable paper insulation
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4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

P	**Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională**
	P1. **Director** al proiectului 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
	P2. Director al proiectului CAPACITATI, Modul III, Proiect Bilateral Ro – Cipru, nr. 436CB/2011: Compozite polimerice nano-active avansate cu metale rare şi oxizi metalici, pentru aplicaţii în microelectronică în domeniul GHz
	P3. Director al proiectului Low-cost and energy-efficient LTCC sensor/IR-UWB transceiver solutions for sustainable healthy environment (SENSEIVER) FP7-PEOPLE-2011-ITN GA-289481
	P4. Director al proiectului 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
	P5. Director al proiectului M-Era Net INTCERSEN nr. 1132/2015, Integrated sensors with microfluidic features using LTCC technology
	P6. Director al proiectului GRANT DE TIP A CU CNCSIS: PLATFORME VIRTUALE SI DISTRIBUITE PENTRU DESIGN-UL, MONITORIZAREA PERFORMANTELOR SI DIAGNOZA SISTEMELOR ELECTROMECANICE
	P7. **Director** al proiectului DEZVOLTAREA CAPACITĂŢII DE INTEGRARE A ROMANIEI ÎN CADRUL PROGRAMELOR, PLATFORMELOR ŞI REŢELELOR EUROPENE IN DOMENIUL SISTEMELOR VIRTUALE SI DISTRIBUITE DE DESIGN SI MANAGEMENT AL CERCETARII, CEEX M3 / CNMP, 188/2006
	P8. Director al proiectului PNIII - ERANET, COFUND-MANUNET, nr. 17/2018, Îmbunătățirea tehnologiilor de printare pentru fabricarea economica a sistemelor de analiză tip Point of Care
	P9. Director al proiectului PNIII - ERANET, MANUNET-III nr. 149/2020, Biosenzori bazati pe arhitecturi nanofluidice pentru detectia proteinelor umane
	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale -
	P10. Membru în echipa de implementare a proiectului *'Transfer de cunoștințe privind realizarea de noi metode de diagnosticare a panourilor din parcuri fotovoltaice'*, Programul Operaţional Competitivitate, Contract subsidiar nr. 126/D10/2022, My SMIS 105567, durată 8 luni, buget 580.000 lei
	P11. Membru în echipa de implementare a proiectului proiect *'Analize Fizico-Chimice, Materiale Nanostructurate Si Dispozitive Pentru Aplicatii In Domeniul Farmaceutic Si Medical Din Romania'* – AMD-FARMA-MED-RO, Programul Operaţional Competitivitate, Contract subsidiar nr. 62/13.04.2022, My SMIS 105725, durată 11 luni, buget 448.605 lei
	P12. Membru în echipa de implementare a proiectului *'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 Operaţional Competitivitate, Contract nr. 70/221_ap2/14.08.2020, My SMIS 130052, durată 27 luni, buget 4.474.125 lei,
	P13. Membru în echipa de implementare a proiectului *'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

	P14. Membru în echipa de implementare a proiectului *'Analize Fizico-Chimice, Materiale Nanostructurate Si Dispozitive Pentru Aplicatii In Domeniul Farmaceutic Si Medical Din Romania'* – AMD-FARMA-MED-RO, Programul Operaţional Competitivitate, Contract subsidiar nr. 636/16.03.2020, My SMIS 105725, durată 15 luni, buget 630.199 lei
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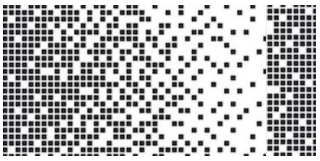
	P16. Membru în echipa de implementare a proiectului *'Dispozitive flexibile și elastice printate 4D de captare a energiei piezoelectrice, bazate pe elastomeri inovativi elctro-adaptabili'*, 4DPrintEN, Proiect cod COFUND - ERANET MANUNET III, Contract de finantare nr. 96/01.06.2019, durată 24 luni, buget 468.100 lei,
	P17. Membru în echipa de implementare a proiectului Materiale multifunctionale inteligente pentru aplicatii de inalta tehnologie, Programul Operaţional Competitivitate, Contract subsidiar nr. 370/20.02.2019, My SMIS 105726, durată 24 luni, buget 880.000 lei
	P18. **Membru în echipa de implementare a proiectului** *Reciclarea avansata integrata a deseurilor combinate inseparabile de mase plastice si hartie, nereciclabile prin tehnologiile actuale,* Programul Operaţional Competitivitate, Contract subsidiar nr. 366/11.09.2017 - 15351/13.09.2017, My SMIS 105581, durată 24 luni, buget 900.000 lei
	P19. Membru în echipa de implementare a proiectului '*Cercetare-dezvoltare de materiale compozite inovative nanostructurate, activabile in camp de radiofrecventa si de microunde, pentru tehnologii reversibile de asamblare cu aplicatii intersectoriale'*, Programul Operaţional Competitivitate, Contract nr. 119/16.09.2016, ID P_37_757, My SMIS 104089, durată 48 luni, buget 11.140.371 lei,
	P20. Membru în echipa de implementare a proiectului Realizarea inovativă de produse compozite termoplastice cu proprietăţi superioare de ecranare electromagnetică prin reciclarea integrată a deşeurilor electronice, (RECEMAT), Programul Operaţional Sectorial Creşterea Competitivităţii 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,
	P21. **Membru în echipa de implementare** 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,
	P22. Membru în echipa de implementare a proiectului FEVAL, 308E/19-08.2011– *"Dezvoltarea de panouri compozite izolatoare pe bază de deşeuri de fulgi/pene, pulbere de lemn şi plastic reciclat pentru clădiri ecologice tip „green building concept"*- finanţat prin Programul EUREKA (Buget total - 390.074 lei)



Data: 10.01.2025

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Lector dr. ŞTIRBU Ioan

A. Teza de doctorat.

1. Cercetări privind biofunctionalizarea suprafetei unor aliaje pe baza de titan destinate aplicatiilor medicale, **Universitatea Tehnică**

,,Gh. Asachi" din Iaşi, 2016.

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

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

1. Ioan Stirbu, Anatolie A. Budevici, *Educatie fizica in pregatirea profesonala a viiitoarei generatii.* Editura Tehnica-Info, Chisinau, 2000, IS BN 9975-63-012-X.

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

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F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

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4. LUŢCANU, Marian et al. *ANALYSJS OF ELECTRJCAL DJSCHARGE MACH/NING (EDM) CUT OF CERAMIC LAYERS OBTAIN THROUGH ATMOSP HERIC 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.utcl uj.ro/index .php/Acta/article/v ie w/2049>.Roman, A. M., Chelariu, R., Cimpoesu, R., Stirbu, I., Ionita, I., Cazacu, M. M., ... & Sodor, A. (2022). *Analysis ofthe Corrosion Rate of FeMn-Si Biodegradable Material.* Archives of Metallurgy and Materials, 67(4), 1243-1250.
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10. Ştirbu, I., Vizureanu, P., Cimpoeşu, 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., Stirbu , I.,. Gheorghe, C. A, Cimpoesu, N., Agop, M., Cimpoesu, R., Popa, C., *Chemical properties of hydroxyapatite deposited through electrophoretic process on dijferent sandblasted samples,* Materials Science - Poland, Voi. 32, 4, 2014, 578-582, DOI: 10.2478/sl3536-014-0241-x.
12. Ştirbu, I., Vizureanu, P., Cimpoesu, N., *Analysis of Dental Alloys Charac/erislics (Micros/ructure and Corrosion Resistance) for Dijferent Obtaining Methods ,* The Annals of "Dunarea de Jos" University of Galati, Fascicle IX, Metallurgy and Materials Science, 2013, no. 4, 78-84, B+.
13. Ştirbu, I., Vizureanu, P., Cimpoesu, R., *Tilanium Based Alloys Chemica/ Surface Funclionalization,* 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 ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1 I. Lucrări ştiinţifice publicate în volumele conferinţelor.Todirică, F., Chicet, D. L., Achiţei, D., Manole, V., Bernevig, M., Ştirbu, I. & Cimpoeşu, 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.o rg/10.5937/IOC25382S.

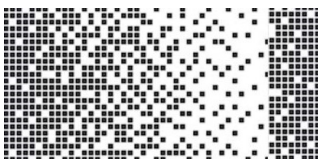
2 I Ştirbu, P. Vizureanu, R. Cimpoesu, C. Munteanu, B. Istrate, M. Benchea, N. Cimpoeşu, *Preliminary results on Ti-based alloy sur/ace sandblast in order to improve the HA deposition process,* ModTech2014 International Conference , Iasi.

3. Congresul International de Educatie Fizică si Sport si Kinetoterapie 2014, Editia a IV, 11-13 iunie, Bucuresti. Prezentare orală
Implant material for sportive injuries.
4. Stirbu I., Vizureanu, P., Ratoi, M., Cimp oesu, N., *Elec/rochemical deposition of hydroxyapalite (HA) on titanium alloys for the implant surface bio-functionalization ,* IEEE Ehealth and Bioengineering Conference (EHB), 2013, DOI: 10.1109/EHB.2013.6707411.
5. Ştirbu, I., Vizureanu, P., Raţoi, M., Cimpoesu, R., *Obtaining hydroxyapatite (HA) by sol-gel method on Ti6Al4V alloys aiming the implant's sur/ace 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, TEME, Octombrie 28- 30, 201 3, Gala ti, Roman ia , prezentare orală, *P65 Ti - Alloys chemical sur/ace fimctionalization.*

J. Invenţii.Contracte de cercetare/granturi.

K. Premii, distincţii.

L. Alte realizări semnificative.



Data: 1.10.2025

Lector dr. Ştirbu Ioan

Conf.dr. TĂRNICERIU T. CARMEN-OANA

1º Teza de doctorat
T1. *Controlul dinamicii populaţiei/ Control of population dynamics* , susţinută public la data de 03.08.2008 la Universitatea Alexandru Ioan Cuza din Iași, în domeniul Matematică, sub îndrumarea ştiinţifică a prof. univ.dr. Sebastian Aniţa

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

Carte/ curs/ manual publicată în editură recunoscută CNCS (unic autor)

Ca1. **C.O. Tărniceriu,** *Algebră Liniară și Geometrie Analitică și Diferențială,* Editura Performantica, ISBN 978-606-685-753-6, Iaşi, 2020

Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)

I1 Matematici Speciale, îndrumar disponibil pe Web la adresa http://math.etti.tuiasi.ro:81/otarniceriu/seminarii.html

I2 Analiză numerică asistată de calculator , îndrumar disponibil pe Web la adresa http://math.etc.tuiasi.ro/otarniceriu/laboratoare.html

I3 *Algebră Liniară și Geometrie Analitică și Diferențială*, îndrumar disponibil pe Web: http://math.etc.tuiasi.ro/otarniceriu/cursuri.html

W

Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.

W1 C.O. Tărniceriu, *Matematici Speciale, http://math.etti.tuiasi.ro:81/otarniceriu/seminarii.html*

W2 **C.O. Tărniceriu,** *Analiză numerică asistată de calculator* suport de laborator Analiză numerică asistată de calculator disponibil online la http://math.etc.tuiasi.ro/otarniceriu/laboratoare.html
W3. **C.O. Tărniceriu,** *Algebră Liniară și Geometrie Analitică și Diferențială*, suport curs disponibil pe Web: http://math.etc.tuiasi.ro/otarniceriu/cursuri.html

3º Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

Articol publicat în revistă cotată ISI, cu factor de impact

R1 G.Dumont, **C.O. Tarniceriu***, Pattern formation in a spiking neural-field of renewal neurons,* SIAM Journal on Applied Dynamical Systems, 23(4), 2670-2694, 2024.
R2 G.Dumont, J.Henry, **C.O. Tarniceriu***, Oscillations in a fully-connected network of leaky integrate-and-fire neurons with a Poisson spiking mechanism,* Journal of Nonlinear Science, 34(1), 2024.
R3 G.Dumont, J.Henry, **C.O. Tarniceriu***, 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
R4. G. Dumont, J. Henry, **C.O. Tarniceriu**, *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.
R5. G. Dumont, J. Henry, **C.O. Tarniceriu**, *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.
R6. G.Dumont, J. Henry, **C.O. Tarniceriu**, *A Density Model for A Population of Theta-Neurons,* Journal of Mathematical Neuroscience, 4(1):2, 2014
R7 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
R8 **C.O. Tarniceriu** , *Optimal Strategy for a Harvesting Problem of Population Dynamics with Logistic Term*, „Analele Ştiintifice ale Universităţii Al. I. Cuza Iaşi", 56 (fasc I), 2010, 25-38.
R9 **C.O. Tarniceriu** , *Asymptotic behavior for a nonlinear age-structured population model with diffusion*, Analele Ştiinţifice ale Universităţii Al. I. Cuza Iaşi, fasc. 2 (Tomul LIV), 2008
R10 S. Anita, **C.O. Tarniceriu**, *Stabilization for a periodic predator-prey system* Abstract and Applied Analysis, volume 2007, doi:10.1155/2007/86183

Articol publicat în revistă indexata in baze de date internaţionale (BDI)
R11 **C.O. Tarniceriu**, *Age structure in neuronal models*, (review paper), Special Issue of the Journal „Annals of the Alexandru Ioan Cuza University of Iaşi" (new series), Mathematics, „Surveys în Mathematical Biology and Medicine. Modeling, simulations and control.", 66(2), 2020.

Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)

V1. **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

E1 International Conference on Applied and Pure Mathematics, November 2024, Iasi, Romania, cu lucrarea *Oscillations in a fully-connected network of leaky integrate-and-fire neurons with a Poisson spiking mechanism*
E2 International Conference on Applied and Pure Mathematics, 31-st October -November 3, 2019, Iasi, Romania cu lucrarea *A nonlinear PDE system describing a network of neurons with Poisson spiking mechanism*
E3 *I*nternational Conference on Applied and Pure Mathematics, November 2-5, 2017, Iasi, Romania cu lucrarea *Connections between mathematical formalizations of noise in neural dynamics*
E4 International Conference on Applied and Pure Mathematics, November 1-3, 2013, Iasi, Romania cu lucrarea *Density Models for Populations of Neurons*
E5 G.Dumont, J. Henry, **C.O. Tarniceriu**, *Analysis of behaviour of a neural population,* NEUROCOMP Computational Neuroscience: From Multiple Levels to Multilevel, 16-18 Sept. 2009, Bordeaux, France

E6 A. Garenne, J. Henry, **C.O. Tarniceriu***, Analysis of synchronization in a neural population by a population density approach*, CMPD 3 – The Third Conference on Computational and Mathematical Population Dynamics, Bordeaux, France, May 31—June 4, 2010.
E7 **C.O. Tarniceriu***, Optimal control for a size structured system,* International Exploratory Workshop on Differential Equations and Applications in Life Sciences, Iasi, Romania, September 5-7 2008
E8 S. Anita, **C.O. Tarniceriu**, *Stabilization for a reaction-diffusion system in periodic environment*, 9-th International Symposium
on Automatic Control and Computer Science, November 2007, Iasi, Romania
E9 K.Georgiev, **C.O. Tarniceriu**, V. Veliov, *Numerical optimal control of size structured systems*, Information days on BIS 21++ project, September 28-29, Borovets, Bulgaria

E10 **C.O. Tarniceriu**, V. Veliov, *Optimal control of a class of size-structured systems*, 6th International Conference on Large-Scale Scientific Computations, Special Session on „Control Theory", June 2007, Sozopol, Bulgaria
E11 **C.O. Tarniceriu**, *Optimal control of size structured population*, Conference Francophone de Modelisation Mathematique en Biologie et Medicine, July 2006, Craiova, Romania
E12 C.O. Tarniceriu, *Optimal control of size structured population* , Viennese Vintage Workshop, November 2005, Vienna, Austria

4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

Alte lucrări de proiectare-cercetare-dezvoltare
F1 Expert educație (Matematică) în proiectul ROSE AG 185, *Creşterea gradului de retentie în primul an de studii universitare în inginerie electrică şi energetică prin reducerea abandonului şi creşterea promovabilității*

Data:26\06\2025 Tărniceriu Carmen-Oana

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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate
C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS)

- Temneanu M., Tehnica reglării şi control automat, Editura PIM (Editură recunoscută CNCSIS), Iaşi, 2009, ISBN 978-606-520-386-0, 220 pag
- Temneanu M., Metode numerice – folosite în electrotehnică, Casa de Editură "Venus" (Editură recunoscută CNCSIS), Iaşi, 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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

- Nemescu V.M., M.Cleju, M.Temneanu, Bazele automatizării, Ed. Gh.Asachi Iaşi, ISBN 973-9178-26-X, 1995, 405 pag.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web
F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale

- 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 microactutor 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 ştiinţifice 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 .
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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS

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- Bujoreanu, L-G., Munteanu C., Ionita I., Temneanu M., and Kogalniceanu V.,2005, On the shape memory behaviour of Cu-based alloys and polyethylene terephthalate (PET), Buletinul Institutului Politehnic Iaşi, tomul LI(LV), fasc. 4, secţia Ştiinţa şi Ingineria Materialelor, pp. 43-50, Revista categoria B+.
- Nemescu V.M., M.Temneanu, D.Avram, 2004, System of Automatic Control of Threads on Textile Machines, Buletinul Institutului Politehnic Iaşi, tomul L(LIV), fasc.5A, pp.87-92, ISBN 1223-8139. Revista categoria B+
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- Nemescu V.M., M.Temneanu, V.Horga , 2002, Automatic control system of the thickness of deposited asphaltic mixture layer, Buletinul Institutului Politehnic Iaşi, tomul XLVIII (LII), fasc.5B, pp.103-110, ISSN 0258-9109. Revista categoria B+
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- Nemescu V.M. , D.Ioachim, M.Temneanu, 2000 , A single phase electromechanical converter working based on the jump resonance, Buletinul Institutului Politehnic Iaşi, tomul XLV (IL), fasc. 5 , pp.369-375, ISSN 0258-9109. Revista categoria B+

- Nemescu V.M. , M.Temneanu, D.Ioachim, 2000 , Transducer for the control of the drive system of the finishing beam, Buletinul Institutului Politehnic Iaşi, tomul XLV (IL), fasc. 5 , pp.297-303, ISSN 0258-9109. Revista categoria B+
- M.Temneanu, Nemescu V.M. , 1999 , The automatic control of the position of the floating beam equipped with proportional distributors , Buletinul Institutului Politehnic Iaşi, tomul XLV (IL) , fasc.5A, pp. 152-156, ISSN 0258-9109. Revista categoria B+
- M.Temneanu , Nemescu V.M. , 1999 , The automatic control of the position of the floating beam equipped with „all-or-nothing" distributors, Buletinul Institutului Politehnic Iaşi, tomul XLV (IL) , fasc.5A, pp.148-152 , ISSN 0258-9109. Revista categoria B+
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- V. Bulancea, L.G. Bujoreanu, A. Dima, M. Temneanu, 1997, Method for producing and training electrical actuators from an experimental Cu-Zn-Al shape memory alloy, Revista Metallurgy and New Materials Researches, Vol. V, No.4/1997, pp. 12-24.
- M.Cleju, Nemescu V.M., M.Temneanu, 1995 , Jump fenomenon in nonlinear feedback systems with parameters slowly variable in time, Buletinul Institutului Politehnic Iaşi, tomul XLI (XLV) , fasc.5 , pp. 951-956, ISSN 0258-9109. Revista categoria B+
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- Nemescu V.M., M.Temneanu, 2005, System for Control and Monitoring the Rotation Rotes on Ring Spinning Frames, STRUTEX, 12-th International Conference Strutex, Liberec, Cehia.
- Nemescu V.M., M.Temneanu, 2000, Self Modulation in Nonlinear Feedback Systems with Jump Resonance, IEEE , Mediterranean Conference on Control & Automation, MED'2000 , Patras, Greece.
- Nemescu V.M. , M.Cleju, M.Temneanu, 1998, On a Single Phase Reluctance Motor Based on a Jump Resonance, 8-th International Conference on Power Electronics & Motion Control, PEMC'98 , pp. 193-196, Praque, ISBN 80-01-01832-6.
- M.Cleju, Nemescu V.M., M.Temneanu, 1997, Analiză comparată între sisteme şi circuite electrice neliniare , Prima Conferinţă Internaţională de Sisteme Electromecanice, SIELMEC'97, pp. 132-134, Chişinău , Republica Moldova, ISBN

9975-910-24-6.

- Nemescu V.M., M.Cleju, M.Temneanu, 1997, Asupra fenomenului de auto modulaţie prin salturi rezonante în sisteme şi circuite neliniare, Prima Conferinţă Internaţională de Sisteme Electromecanice, SIELMEC'97, pp 126-130, Chişinău, Republica Moldova, ISBN 9975-910-24-6.
- Nemescu V.M., M.Temneanu, M.Cleju, 1997, Sistem de control a poziţiei grinzii plutitoare, SIELMEC'97 , Prima Conferinţă Internaţională de Sisteme Electromecanice, vol.II, pp 106-110, Chişinău, Republica Moldova, ISBN 9975-910-24-6.
- Nemescu V.M., M.Cleju, M.Temneanu, 1996 , Metodă de studiu a circuitelor electrice neliniare, Simpozion Internaţional ELECTRO'96, vol.I , pp. 120-126 , Chişinău ,Republica Moldova , ISBN 9975-910-24-6.
- Mircea V. Nemescu, Mitica Temneanu , Self-tunable resonant vibrating system, 6-th International Conference on Electrical and Power Engineering, EPE 2010, pp. 230-233
- Mircea V. NEMESCU, Mitică Temneanu , Slow oscillations in electrical circuits presenting jump resonance and nonlinear damping, SNET 2009. pp. 75-80.
- Nemescu V.M., M. Cleju, M. Temneanu, 1994 , The Measurement of Yarn Tensile Force by Phase Control , Symposium on Electronics and Telecomunications, pp.231-236. Timişoara.
- Nemescu V.M. , M.Cleju, M.Temneanu, 1993, Comb filter usage for estimating the causes of the periodic irrequlatities, textile semiproduct and fibres , Simpozionul internaţional de Circuite şi Sisteme, SCS'93, pp.102-105 , Iaşi.
- Nemescu V.M., M.Cleju, M.Temneanu, 1993 , The forced regime of Nonlinear Control Systems presenting jump Resonance, Simpozionul internaţional de Circuite şi Sisteme, SCS'93, pp. 62-65, Iaşi.
- C. Fosalau, M. Temneanu, 1993, Program pentru perforarea cartelelor electronice pe un system Charly-Robot. Consideratii asupra sistemului de comanda., Simpozionul TEHNOMUS VII, Suceava, pp. 92-95.
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- Nemescu V.M., M.Cleju, M.Temneanu, 1992, Sistem pentru controlul mecanismului de tragere si infasurare a tesaturii, aX-a Conferinta Romana de Textile-Pielarie, Iasi, pp. 167-170.
- Nemescu V.M. , M.Cleju , M.Temneanu , 1990 , Driving system of warp beam on weaving for automatic regulation of warp tension , A cincea Conferinţă naţională de acţionări electrice , pp.320-325 , Galaţi.

J. Inventii

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- Nemescu Mircea, Temneanu Mitica, Denis Alexandru, Tensometru Electronic, Brevet de Inventie România nr. RO128869-A2, RO128869-B1 / 2014.
- Nemescu Mircea, Temneanu Mitica, Denis Alexandru, Vibrator electromagnetic resonant autoacordabil, Brevet de Inventie România nr. 128811 / 2017

K. Contracte de cercetare/granturi

Programul/Proiectul	Titlul	Funcţia

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	Obtinerea 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 condiţii de laborator a elementelor multifuncţionale hidraulice şi electrice obţinute	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 multifuncţionale cu memoria formei. Aplicaţii de tip senzor şi actuator	Membru in echipa de cercetare
Cod 400, Contract CNCSIS nr. 33479 / 2002	Cercetări privind retehnologizarea echipamentelor de distribuit mixturi asfaltice, betoane şi agregate prin introducerea controlului automat al nivelului materialului şi a poziţiei grinzii finisoare	Membru in echipa de cercetare
Cod 246, Contract CNCSIS nr. 35259 / 2001	Cercetări privind retehnologizarea echipamentelor de distribuit mixturi asfaltice, betoane şi agregate prin introducerea controlului automat al nivelului materialului şi a poziţiei grinzii finisoare	Membru in echipa de cercetare

L. Premii, distincţii

M. Alte realizări semnificative

Data
27.10.2025

Mitică Temneanu

S.l.dr.ing. **URSACHE SILVIU-IONUȚ**

Teza de doctorat.

1. „*"Cercetări privind măsurarea intesităţii câmpului continuu şi de joasă frecvenţă în vederea estimării nivelului de poluare electromagnetică",* conducător ştiinţific prof. univ. dr. ing. Mihai Creţu, 2011.

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

C. ***Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, 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, Bucureşti, 2014.
2. A. Salceanu, E. Lunca, M. Paulet, O. Neacsu, S. Ursache, *Compatibilitate electromagnetică*. Aplicaţii. ISBN 978-606-13-2812-3, Editura PIM, 2015, 200 pagini.

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

Cărţi (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 ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.***

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 NEACŞU, MEASURING THE ELECTRIC AND MAGNETIC FIELDS ASSOCIATED WITH THE ELECTROSTATIC DISCHARGES, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Tomul LXI (LXV), Fasc. 4, 2015, Index Copernicus, getCITED, Ulrich's.

6. Iuliana-Silvia GEORGESCU, **Silviu-Ionuţ URSACHE**, Elena-Raluca BACIU, Daniel HRIŢCU, 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).

Lucrări ştiinţifice publicate în reviste din străinătate.

H.***Lucrări ştiinţifice publicate în reviste din ţară, 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. Neacşu O., Toma L., **Ursache, S.I**., Rendering the measurements of the near fields associated with ESD experiments, Buletinul Instutului Politehnic din Iaşi, Tomul LIV (LIV), 2008, pp. 393-398.
3. Nicusor Manolica, Liliana Bargan 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, Iaşi, Romania, 326 – 329.

Lucrări ştiinţifice publicate în volumele conferinţelor.

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://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, 759-764, ISBN:978-1-5386-5062-2, 2018.
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 the9-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 IEEExplore.
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 IEEExplore.
16. Oana Neacşu, 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, Iaşi, 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 Nicuţă, **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, Iaşi, 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 Neacşu, 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. ***Invenţii.***

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

1. Dezvoltarea conceptului de cladire generator-convertor 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, distincţii.***

Alte realizări semnificative.

Data: 7.01.2025 S.l.dr.ing. **URSACHE** Silviu-Ionuț

Prof.dr.ing. **VARVARA Viorel**

A. Teza de doctorat.

T1 – Influenta regimului deformant asupra functionarii sistemelor electroenergetice", 1999, Domeniul „Inginerie Energetica", Universitatea Tehnică „Gheorghe Asachi" din Iași, conducător doctorat: prof. dr. ing. Cartina Gheorghe.

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

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

1. **Varvara, V.** Bazele Electrotehnicii 1 Editura Sunset, Iaşi 2000 ISBN 973-96029-7-5, 211 pag.,
2. **Varvara, V.,** Cârţină, Gh. Semnale, circuite şi reţele electrice funcţionând în regim permanent nesinusoidal, Casa de Editura Venus, Iaşi 2001, ISBN 973-8174-09-0, total 262 pag.
3.Georgescu Gh., Istrate M., **Varvara V.,** Radasanu Daniela, B. Popa Transportul şi distribuţia energiei electrice vol. II, Editura Gh. Asachi, Iaşi 2001, ISBN 973-8292-03-4, total 443 pag.
4. **Varvara.V.,** Circuite electrice liniare, Editura Tehnică, Ştiinţifică şi Didactică CERMI, Iaşi 2002, ISBN 973-8188-28-8, 580 pag.
5. Zaharia I., Popescu I., **Varvara V.,** Temneanu C. Bazele Electrotehnicii-Vol. I, Circuite electrice în curent continuu Editura Tehnică, Ştiinţifică şi Didactică CERMI, Iaşi 2003, ISBN 973-8188-66-0; 973-8188-67-9, 240 pag.
6. **Varvara V.,** Zaharia I., Popescu I. Bazele Electrotehnicii Vol. II - Circuite electrice în curent alternativ Editura Tehnică, Ştiinţifică şi Didactică CERMI, Iaşi 2003, ISBN 973-8188-66-0; 973-8188-68-7, 380 pag.
7. **Varvara V.,** Câmpul electromagnetic, Editura Tehnică, Ştiinţifică şi Didactică CERMI, Iaşi 2004, ISBN 973-667-007-4 , 400 pag.
8. **Varvara V.,** Bazele electrotehnicii de la A la Z, Editura Tehnică, Ştiinţifică şi Didactică CERMI, Iaşi 2005, ISBN 973-667-104-2,140 pg.
9. **Varvara.V**., Teoria circuitelor electrice, Editura Tehnică, Ştiinţifică şi Didactică CERMI, Iaşi 2006, ISBN 973-667-184-4, 608 pag.
10. Georgescu Gh., **Varvara V.,** Istrate M., Sisteme de distribuţie a energiei electrice, Vol 2, partea I-a Editura Tehnică, Ştiinţifică şi Didactică CERMI, Iaşi 2008, ISBN 978-973-667-314-6, 454 pag.
11. Georgescu Gh., **Varvara V.,** Sisteme de distribuţie a energiei electrice, Vol 2, partea II-a Editura Politehnium, Iaşi 2009, ISBN 978-973-621-24756, 461 pag.
12. **Varvara V.,** Circuite electrice, Editura PIM, Iaşi 2009, ISBN 978-606-520-658-8, 602 pg. 608
13. **Varvara V.,** Lecţii de Teoria Circuitelor Electrice, Editura PIM, Iaşi 2010, ISBN: 978-606-13-0016-7., pg. 302.
14. **Varvara V.,** Lecţii de Teoria Câmpului electromagnetic, Editura PIM, Iaşi 2012, ISBN: 978-606-13-0723-3., pg. 260
15. **Varvara V.,** Bazele electrotehnicii de la A la Z, Editura PIM, Iaşi 2013, ISBN 973-667-104-2 , 140 pag.
16. **Varvara V.,** Teoria Câmpului electromagnetic- Culegere de probleme, Editura PIM, Iaşi 2014, ISBN: 978-606-13-2129-2., pg. 216
17. **Varvara V.,** Armonici in retelele electrice, Editura PIM Iasi 2019, ISBN: 978-606-13-5198-5, pg 223
18. **Varvara V.,** O scurtă istorie a electricității, Editura PIM Iași 2019, ISBN: 978-606-13-5304-0, pg. 182

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

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

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

1) Popescu,I., Zaharia,I., Petrescu,C., Varvara,V. Determination of Harmonic Active Losses Produced by the a.c.Networks Supplying Railway, Buletin I.P.I.,Tom XXXV (XXXIX) fasc. 3-4 ,1989, 73-78.

2) Popescu,I., Varvara,V., Zaharia,I. Power Circulation on Symmetrical Sequences in Three-Phase Circuits with Unbalanced Receivers, Buletin I.P.I.,Tom XXXVIII (XLII) fasc. 1-4 ,1992, 7-16.

3) Varvara, V.,Georgescu, Gh.Duty Analyse and Supplementary Power Losses in Distribution Networks Running Under Non-sinusoidal Steady State" Buletin I.P.I.,Tom XLVII, (LI), fasc. 1-2, 2001 pp. 181-188.

4) Varvara, V. The Non-symmetrical Steady State of a Three Phase Distribution Network, Buletin I.P.I.,Tom XLVII fasc. 1-2, (LI), 2001 pp. 197-207.

5) Georgescu, Gh., Varvara, V., Poeată, Alexandru, Software Application Package For Structure and State Optimisation of the Distribution Networks, Using Classical and Bassed on Evolutionary Algorithms Methods, Romanian Academy, Branch Office of Iasi, Vol 1/2001, pp. 269-274.

6) Varvara, V.,Harmonic Steady States in Medium Voltage Networks, Buletin I.P.I.,Tom XLVII, (LI), fasc. 3-4, 2001, pp.143-148.

7) Georgescu, Gh., Rădăşanu Daniela, Varvara, V., Software Appication Package for the Analysis and the Optimisation of Distribution Networks Characteristic Regimes, Buletin I.P.I.,Tom XLVII, (LI), fasc. 3-4, 2001, pp.149-156.

8) Varvara, V., Georgescu Gh.The Active and Reactive Powers Flow and the Influence of the Neutral Impedance in Three Phase Networks Running Under Sinusoidal and Non-symmetrical Steady State, Buletin I.P.I.,Tom XLVIII, (LII), fasc. 1-2, 2002, pp.165-174

9) Varvara, V., Georgescu, Gh, Software Package for the Analysis of the Non-sinusoidal Steady State Produced by a Non-linear and Concentrated Load, Buletin I.P.I.,Tom XLVIII, (LII), fasc. 1-2, 2002, pp.157-164

12) Varvara, V., Georgescu, Gh., Compensarea activă a armonicilor , Analele Universităţii din Oradea, ISSN 1224-126112, 2002, 342-346,.

13) Georgescu Gh., Varvara, V. Sistem de sondare a curbelor de sarcină în vederea stabilirii unei baze de date care să conţină graficele de sarcină ale consumatorilor. Modelarea sarcinilor din nodurile reţelelor de distribuţie publică, Analele Universităţii din Oradea, ISSN 1224-1261. 2002, 406-415

14) Varvara V., The Charge of the Neutral Conductor in Non-symmetrical States, Buletin I.P.I.,Tom XLVIII (LII), fasc. 5, 2002 pp. 233-238.

15) Georgescu Gh., Varvara V., Ciutea I, Brumă N., Sufleţel N. System for Sounding the Load Curves and for Classifying the Consumers of the Public Network of Urban Distribution, Buletin I.P.I.,Tom XLVIII, (LII), fasc. 3-4, 2002, 181-188.

16) Varvara V., The Influence of the Neutral Point Connection on the Current Flow in Electrical Networks Running in Non-Sinusoidal and Non-Symmetrical Steady State, Buletin I.P.I.,Tom XLVIII, (LII), fasc. 3-4, 2002, 55-64.

17) Varvara V., Georgescu Gh., Power Factor Computation in Distribution Electrical Networks with Star Connected Loads Running in Non-symmetrical Steady States, Buletin I.P.I.,Tom Tom XLIX (LIII) Fasc 1-2, 2003, pp.117-124, 2003.

18) Georgescu Gh., Varvara V. , Cristina Curteanu, Aspects Regarding the Evaluation of Technological Consumptions in Urban Public Networks, Buletin I.P.I.,Tom XLIX (LIII) fasc.1-2, 2003, pp.103-110, 2003.

20) Georgescu Gh., Varvara V., Ciutea I., Brumă N., Popa C., Sufleţel N.., Consideraţii privind regimul deformant în reţelele de distribuţie , Revista Producerea, transportul si distributia energiei electrice şi termice nr.8 -9/2003, 39-45.

21) Georgescu Gh.,Varvara, V. Curteanu C., Utilizarea reţelelor neuronale artificiale pentru prognoza sarcinilor electrice

Analele Universităţii din Oradea ISSN 1224-1261, pp.173-180, 2003

22) Varvara V., Georgescu Gh., Factorul de putere în regim nesimetric în reţelele de distribuţie

Editura Academiei Române, ISBN 973-27-1032-2, pp 229-234.

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4. M. Gavrilaş, Al. Poeată, V. Varvara, Gh. Georgescu, Gh. Cârţină, Cl. Bonciu

Utilizarea reţelelor neuronale în supravegherea şi conducerea reţelelor electrice

Contract cercetare 2443/1994 -beneficiar FRE Iaşi.

5. M. Gavrilaş, Gh. Georgescu, V. Varvara, Gh. Cârţină, Gh. Savitescu, E. Bârlădeanu

Utilizarea reţelelor neuronale în supravegherea şi conducerea reţelelor electrice

Contract cercetare 5857/1995 -beneficiar FRE Iaşi.

6. M. Gavrilaş, Gh. Georgescu, V. Varvara, Al. Poeată, Gh. Cârţină, Gh. Savitescu

Cercetări privind optimizarea multicriterială a structurii şi regimurilor de funcţionare ale reţelelor electrice de distribuţie în vederea creşterii calităţii energiei electrice şi reducerii consumurilor proprii tehnologice –

Contract cercetare 6685/1996 - beneficiar FRE Iaşi.

7. Gh. Georgescu, V. Varvara, M. Gavrilaş, D. Rădăşanu, E. Bârlădeanu, Gh. Savitescu

Studiu pentru reconfigurareaeţelei de distribuţie de medie şi joasă tensiune ţinând seama de încărcarea optimă a reţelei şi de cadererile de tensiune în vederea scădereii consumului propriu tehnologic

Contract 3624-1997 - beneficiar FRE Focşani.

8. M. Gavrilaş, Gh. Georgescu, V. Varvara, D. Rădăşanu, E. Bârlădeanu, Gh. Savitescu

Utilizarea reţelelor neuronale în previziunea sarcinii pe termen scurt şi mediu–

Contract cercetare 3625/1997, beneficiar FRE Suceava.

9. M. Gavrilaş, Gh. Georgescu, V. Varvara, D. Rădăşanu, E. Bârlădeanu, Gh. Savitescu

Previziunea pe termen scurt a puterii absorbite şi a consumului de energie folosind elemente ale inteligenţei artificiale

Contract cercetare 6760/1998 - beneficiar FRE Vaslui

10. M. Gavrilaş, V. Varvara, Gh. Georgescu

Cercetări privind implementarea unor modele ale inteligenţei artificiale pentru prognoza pe termen scurt şi mediu a consumului de energie electrică-

Proiect anual de cercetare cu CNCSIS, tip A, 1999.

11. Gh. Georgescu, V. Varvara, D. Rădăşanu

Estimarea stării reţelelor de distribuţie şi măsuri pentru creşterea eficienţei exploatării lor.

Contract cercetare 558P/2000 - beneficiar FRE Iaşi.

12. Gh. Georgescu, V. Varvara

Utilizarea calculului evolutiv (algoritmi genetici) pentru optimizarea nivelelor de tensiune şi reducerea CPT în reţelele de distribuţie ale SDEE Galaţi.

Contract cercetare 556P/2000 - beneficiar FRE Galaţi.

13. M. Gavrilaş, V. Varvara, Gh. Georgescu

Studiu privind regimul de scurtcircuit în reţelele de transport exploatată de Sucursala de Transport Constanţa

Contract cercetare1739P-2000 - beneficiar ST Constanţa.

14. V. Varvara , Gh. Georgescu, C. Curteanu

Pachet de programe pentru optimizarea structurii şi regimului de funcţionare ale reţelelor de joasă şi Cercetări privind îmbunătăţirea calităţii energiei electrice prin reducerea nivelului poluării armonice în reţelele de distribuţie de medie şi 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 INFLUENŢEI DEFECTELOR DIN REŢEAUA DE 110 kV ASUPRA FUNCŢIONĂRII REŢELEI DE TRANSPORT A ST BACĂU

contract nr. 2220P din 02.06.2006, obtinut prin lictatie deschisa publicata in Monitorul Oficial al Romaniei, partea a VI-a,

responsabil tema -

suma 30000 RON, beneficiar - CN Transelectrica SA, ST Bacau.

16. SISTEM INTEGRAT DE INSPEŢIE VIDEO-INTELIGENTĂ; A

MATERIALELOR TEXTILE DEZVOLTAT PRIN METODE VIRTUALE DE PROCESARE A IMAGINII

Program CEEX - 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 in colectivul de cercetare

17. SISTEM INTELIGENT DE IRIGARE DE PRECIZIE IMPLEMENTABIL PE STRUCTURILE AUTOMATE CU DEPLASARE CIRCULARĂ SAU LINIARĂ. Program CEEX - 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 in colectivul de cercetare

18. Sistem video inteligent de comandă a semaforizării intersecţiilor destinat diminuării congestiilor rutiere şi reducerii poluării fizico-chimice şi 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.Penciuc, 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 şef lucrări dr.ing. Donciu Codrin), valoare TUIASI 405.000 lei

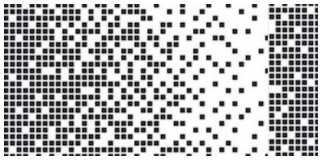
21. PN2 – Parteneriate, contract 30/2012, Contor inteligent bazat pe evaluarea semnăturii energetice: (membru; dir.: prof.dr.ing. Temneanu M.)

22. PN2 – Parteneriate, contract 251/2014, Mini-patern-urile, soluția coordonării video a procesului de confecţionare a produselor textile: (membru; dir.: prof.dr.ing. Temneanu M.)

L. Premii, distincții.

M. Alte realizări semnificative.

Data, Nume, semnătura



24.11.2025

* Conform H.G. 1175/ 2006

Asist.dr.ing. Silviu Constantin VORNICU

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. Cărţi (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. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

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

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

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

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 ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. 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).

2. 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).
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).
4. 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).
5. 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).
6. 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).
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).
8. 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).
9. **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).
10. 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).
11. **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).

12. 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. Invenţii.

K. Contracte de cercetare.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
21.11.2025

Nume, semnătura
Vornicu Silviu-Constantin

* Conform H.G. 1175/ 2006