

Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată

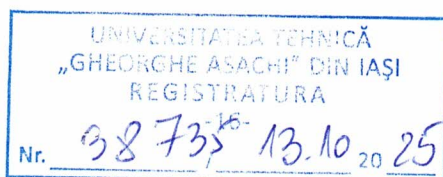
Departamentul de Energetică

**DOSAR DE CONCURS
PENTRU ACORDAREA GRADAȚIEI DE MERIT
2025 – 2030**

Candidat:

Prof.univ.dr.ing. Dumitru-Marcel ISTRATE

Octombrie 2025



Domnule Decan al facultății IEEIA

Subsemnatul, Dumitru-Marcel ISTRATE, cadru didactic al Universității Tehnice „Gheorghe Asachi” din Iași cu funcția actuală de profesor, în cadrul Departamentului de Energetică, și director al departamentului de Energetică, prin prezenta, vă rog să binevoiți a aproba înscrierea la concursul pentru acordarea gradației de merit pentru perioada 2025 - 2030, pe unul dintre locurile repartizate departamentului de Energetică, conform Procedurii privind acordarea gradațiilor de merit pentru personalul didactic titular din cadrul Universității Tehnice „Gheorghe Asachi” din Iași, PO.DID.11.

01 octombrie 2025

Prof.univ.dr.ing. Dumitru-Marcel Istrate

RAPORT DE AUTOEVALUARE A ACTIVITĂȚII PENTRU
perioada de evaluare corespunzătoare Procedurii de evaluare a cadrelor didactice de către
structurile de management, cod TUIASI.POB.12,
aplicată în luna aprilie 2025, pentru anul 2024

Numele și prenumele: **ISTRATE Dumitru-Marcel**

Funcția didactică: profesor

Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată

Departamentul de Energetică

Criteriul 1. Activitatea didactică

Punctaj conform procedurii TUIASI.POB.12 = **35387.97** puncte

Criteriul 2. Activitatea de cercetare științifică

Punctaj conform procedurii TUIASI.POB.12 = **2682.26** puncte

Criteriul 3. Recunoașterea națională și internațională

Punctaj conform procedurii TUIASI.POB.12 = **475,00** puncte

Criteriul 4. Activitatea cu studenții

Punctaj conform procedurii TUIASI.POB.12 = **123,00** puncte

Criteriul 5. Activitatea în comunitatea academică

Punctaj conform procedurii TUIASI.POB.12 = **46,31** puncte

Total criterii 1 ÷ 5 = 38714,54 puncte

Detalierea modului de raportare a punctajului este dată în Fișa de autoevaluare și de evaluare de către directorul de departament, întocmită în luna aprilie a anului 2025 și depusă la dosar.

Punctajul din Fișa de verificare a îndeplinirii standardelor minime obligatorii, naționale și ale Universității Tehnice „Gheorghe Asachi” din Iași, pentru funcția de profesor, la data depunerii cererii sunt date în tabelul de mai jos și sunt explicitate în fișa depusă la dosar:

Nr. crt	Domeniul de activitate	Condiții profesor	Punctaj obținut
1	Activitatea didactică/profesională (A1)	Minimum 120	334,52

2	Activitatea de cercetare (A2)	Minimum 360	1610,44
3	Recunoașterea impactului activității (A3)	Minimum 120	2030,16
TOTAL		Minimum 600	3975,12

În ceea ce privește îndeplinirea standardului minimal al universității SMU.PROF.1 – Activitatea didactică, am realizat 253,11 puncte, față de minimul de 24.

Data: octombrie 2025

Prof.univ.dr.ing. Dumitru-Marcel ISTRATE



**RAPORT DE AUTOEVALUARE A ACTIVITĂȚII PENTRU PERIOADA 2020 – 2024, CORESPUNZĂTOR
PROCEDURII DE EVALUARE A CADRELOR DIDACTICE DE CĂTRE STRUCTURILE DE MANAGEMENT
TUIASI.POB.12**

Nr. crt.	Criteriul	2020	2021	2022	2023	2024	Medie
1	Activitatea didactică	4469.19	12909.16	24997.16	35013.45	35387.97	22555.39
2	Activitatea de cercetare științifică	4407.32	1023.04	6353.41	8265.94	2682.26	4546.394
3	Recunoașterea națională și internațională	256	300	211	239	475	296.2
4	Activitatea cu studenții	261	201	105	121	123	162.2
5	Activitatea în comunitatea academică	56	56	70	70	46.31	59.662
	Total	9449.51	14489.2	31736.57	43709.39	38714.54	27619.84

Octombrie 2025

Prof.univ.dr.ing. Dumitru-Marcel ISTRATE



UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
 FACULTATEA DE INGINERIE ELECTRICA, ENERGETICA SI INFORMATICA APLICATA
 DEPARTAMENTUL DE INGINERIE ENERGETICĂ
 Ramura de știință: INGINERIE ELECTRICA ELECTRONICA SI TELECOMUNICATII
 Domeniul de studii: INGINERIE ENERGETICĂ

FIȘA DE VERIFICARE pentru postul de profesor universitar

Cadru didactic: **Istrate Dumitru-Marcel**, Data nașterii: **5.09.1960**, Funcția ocupata: **Profesor universitar**, Data numirii în funcția actuală: **Ordinul Ministrului Educației și Cercetării 2001**.

Tabel 1: Condiții minimale / punctaje obținute în conformitate cu Ordinul Ministrului nr. 6129/20.12.2016 – Anexa 10, Domeniul CNATDCU de Inginerie Energetică

Nr. crt	Domeniul de activitate	Condiții profesor	Punctaj obținut
1	Activitatea didactică/profesională (A1)	Minimum 120	334,52
2	Activitatea de cercetare (A2)	Minimum 360	1610,44
3	Recunoașterea impactului activității (A3)	Minimum 120	2030,16
TOTAL		Minimum 600	3975,12

Criteriul C 2.1 Calitatea resursei umane $\text{Scor}_j^{(U)} = 3975,12/600$;

$\text{Scor}_j^{(U)} = \mathbf{6,6252}$

Tabelul 2. Structura activitatii cadrelor didactice / cercetatorilor si punctaje realizate
Centralizarea îndeplinirii cerințelor standardului minimal național

Cerințe	Valoare minimă	Realizat
1.1.1. Cărți cu ISBN/capitole ca autor didactice sau monografii	4	8, din care 3 prim-autor
1.2.1. Suport de curs inclusiv electronic	2, din care 1 ca prim-autor	6, din care 2 prim-autor
1.2.2. Îndrumare de laborator/aplicații	2, din care 1 ca prim-autor	3, din care 1 ca prim-autor
2.1. Articole în extenso în reviste cotate WOS Thomson Reuters, în volume proceedings indexate WOS Thomson-Reuters și brevete de invenție indexate WOS-Derwent	Minimum 10, din care minimum 4 în reviste	84, din care 17 în reviste și 17 brevete de invenție
2.2. Articole în revistele și volumele unor manifestări științifice indexate în alte baze de date internaționale	Minimum 20	76
2.4. Granturi/ proiecte castigate prin competiție națională/internațională	Minimum 2 ca și Director de proiect /responsabil partener	16, din care la 10 în calitate de director, responsabil științific sau responsabil partener
2.5. Contracte de cercetare / consultanță (valoare echivalentă de minimum 2 000 Euro)	Nenormat	42, din care la 11 director de contract de cercetare
3.1. Citări în reviste WOS și volumele conferințelor WOS	Minimum 8 citări	232 citări în reviste și volumele conferințelor WOS
3.2. Citări în reviste și volumele conferințelor BDI	Minimum 16 citări	197 citări în reviste și volumele conferințelor BDI
Total puncte Activitatea didactică/profesională (A1)	120	334,52
Total puncte Activitatea de cercetare (A2)	360	1610,44
Total puncte Recunoașterea impactului activității (A3)	120	2030,16
Total A1+A2+A3	600	3975,12

COMISIA **INGINERIE ENERGETICĂ** - Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare

Nr. crt.	Domeniu	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori (kpi)
0	1	2	3	4	5

1	Activitatea didactică și profesională (A1)	1.1 Cărți și capitole în cărți de specialitate		1.1.1.1 internaționale	nr. pagini/(2* nr. autori)
				1.1.1.2 naționale	nr. pagini/(5* nr. autori)
				Oprea Roxana, Istrate Marcel , Machidon Dragos, <i>Solutii pentru cresterea performantelor sistemelor fotovoltaice</i> , Editura PIM, 205 pagini, ISBN 978-606-13-8696-3, 2024	13,66
				Machidon Dragoș. Istrate Marcel , <i>Modelele matematice de calcul a zonelor de protecție generate de sistemele de paratrăsnete</i> , Editura Universității Tehnice "Gheorghe Asachi" din Iași, 182 pag, ISBN 978-973-621-537-7, 2024	18,20
			1.1.1 Cărți cu ISBN/ capitole ca autor; pentru Profesor/CSI minim 4, d.c. 1 prim autor; Conferențiar/CSII minim 2	Beniuga Razvan, Istrate Marcel , <i>Provocari privind integrarea centralelor eoliene in sistemul energetic</i> , Editura Politehniun (cod CNC SIS 211), Iași, 208 pag., (31 rânduri/pagină – coeficient 1,03), ISBN 978-973-621-520-9, 2023	20,80
				Istrate M. , Asandei D., Temneau C., <i>Analiza asistată de calculator a coordonării protecției de impedanță</i> Editura Politehniun (cod CNC SIS 211), Iași, 255 pag., ISBN 978-973-621-266-4, 2008	17,00
				Istrate M. , <i>Electrosecuritate</i> , Editura Editura Tehnică, științifică și didactică CERMI (cod CNC SIS 181), Iași, 384 pag., ISBN 978-973-667-274-3, 2007.	76,80
				Istrate M. , <i>Tehnologii și instalații pentru reducerea emisiilor poluante – Controlul poluării în termoeenergetică</i> , Editura SETIS, Iași, cod CNC SIS 279, 428 pag, ISBN 973-86764-0-1, 2004.	85,60
				Adam M., Istrate M. , Baraboi A., Gușă M., <i>Echipamente de comutație și izolația rețelelor electrice</i> , Editura AGIR, București, (cod CNC SIS 140) 185 pag., ISBN – 973-8130-38-7, 2001.	9,25
				Asaftei C., Gușă M., Istrate M. , Gavrilăș N., <i>Tehnici de control și supraveghere a rețelelor de distribuție</i> , Editura Fundației Culturale "Renașterea Română", Iași, 315 pagini, ISBN 973-97246-1-2, 1998.	15,75
		1.1.2 Cărți/ capitole de cărți ca editor/coordonator		1.1.2.1 internaționale	nr. pagini/(3* nr. autori)

		1.1.2.2 naționale	nr. pagini/(7* nr. autori)
	1.2 Suport didactic	1.2.1 Manuale, suport de curs inclusiv electronic	nr. pagini/(10* nr. autori)
		Georgescu Gh., Varvara V., Istrate M. , <i>Sisteme de distribuție a energiei electrice. Volumul II, partea a I-a</i> , Editura Tehnică, științifică și didactică CERMI (cod CNC SIS 181), Iași, 453 pag., 200 ex., ISBN 978-973-667-314-6, 2008.	15,10
		Georgescu G., Istrate M. , Varvara V., Rădășanu D., Popa B., <i>Transportul și distribuția energiei electrice, Vol. II</i> , Editura "Gh.Asachi" Iași, (cod CNC SIS 211), 442 pag, 350 ex., ISBN 973-8292-03-4., 2001.	8,84
		Istrate M. , Gușă M., <i>Impactul producerii, transportului și distribuției energiei electrice asupra mediului</i> , Editura AGIR, București, (cod CNC SIS 140) 210 pagini, 150 exemplare, ISBN 973-99295-5-9, , 2000.	10,50
		Gușă M., Istrate M. , Gavrilăș N., Asaftei C., <i>Tehnica tensiunilor înalte - Supratensiuni în sistemele electroenergetice</i> , Editura Fundației culturale "Renașterea Română", Iași, 300 pagini, 200 exemplare, ISBN 973-97246-3-9, 1997.	7,50
		Gavrilăș N., Istrate M. , Gușă M., Asaftei C., <i>Tehnica tensiunilor înalte - Supratensiuni în sistemele electroenergetice</i> , Curs litografiat la Universitatea Tehnică "Gheorghe Asachi" din Iași, 210 pag., 1996.	5,25
		M. Istrate , M.Gușă, D. Machidon, <i>High Voltage Enegineering – curs electronic</i> , disponibil la adresa: www.tti.ieceia.tuiasi.ro , 70 pag., 2011.	2,30
		1.2.2 Îndrumare de laborator/aplicații	nr. pagini/(20* nr. autori)
		Machidon D., Istrate M. , <i>Tehnica tensiunilor înalte – Lucrari de laborator</i> , Editura Politehniun, Iași, 185 pag., ISBN 978-973-621-501-8, 2021.	4,62
		Gușă M., Istrate M. , Bucă C., <i>Tehnica tensiunilor înalte – Aplicații. Ediția a II-a, revizuită</i> , Casa de Editură Venus (cod CNC SIS 199), Iași, 351 pag., 100 exemplare, ISBN 973-756-028-0, 2006.	5,85
		M. Istrate , D. Machidon, <i>Regimuri tranzitorii electromagnetice – lucrări de laborator</i> , disponibil la adresa: www.tti.ieceia.tuiasi.ro , 85 pag., 2013.	2,12
	1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale(POS, ERASMUS, sa)	Punctaj unic pentru fiecare activitate	
		Responsabil domeniu de studii de masterat Inginerie Energetica, Universitatea Tehnica „Gheorghe Asachi” din Iasi	10.00
		Coordonator cursuri de pregatire teoretica in vederea reautorizarii ANRE a electricienilor, organizate de catre Facultatea de Inginerie Electrica, Energetica si Informatica Aplicata din Iasi,	10,00

Total Criteriu Activitate didactică și profesională (A1)		334,52
2	Activitatea de cercetare (A2) 2.1 Articole în reviste cotate și în volume proceedings indexate ISI Thomson- Reuters *)	(25+20* factor impact)/nr. de autori
	Dragos Machidon, Marcel Istrate, Razvan Beniuga, <i>Wind Shear Coefficient Estimation Based on LIDAR Measurements to Improve Power Law Extrapolation Performance</i> , Remote Sensing, 2025, Vol 17, Issue 1, 23; DOI: 10.3390/rs17010023, https://doi.org/10.3390/rs17010023 , Submission received: 2 November 2024 / Revised: 5 December 2024 / Accepted: 23 December 2024 / Published: 25 December 2024, (This article belongs to the Special Issue New Insights from Wind Remote Sensing), https://www.mdpi.com/journal/remotesensing , Revista ISI - Impact factor la data publicarii 4,2, Citescore 8,3, Q1	(25+20*4.20)/3=36,33
	Costel Boariu, Costică Roman, Marcel Istrate, Tor Haakon Bakken, Atle Harby, Elena Pummer, Georgiana Dunca, Diana Maria Bucur, <i>Peculiarities of the run-off-river hydropower potential in Romania</i> , Environmental Engineering and Management Journal, January 2024, Vol. 23, No. 1, pp. 51-60, Print ISSN: 1582-9596, eISSN: 1843-3707, DOI: 10.30638/eemj.2024.005, http://www.eemj.icpm.tuiasi.ro/issues/vol23/vol23no1.htm , Revista ISI - Impact factor la data publicarii 1,1	(25+20*1.10)/8=5,87
	Fadila Barkat, Ali Cheknane, Josep M. Guerrero, Abderezak Lashab, Marcel Istrate, Mihai Gavrilas, Justina G. Motas, Ioan Viorel Banu, <i>Review, analysis, and performance evaluation of the most common four active methods for islanding detection in grid-connected photovoltaic systems</i> , January 2023, Electric Power Systems Research 214(Part A), DOI: 10.1016/j.epsr.2022.108909, LicenseCC BY 4.0 https://www.sciencedirect.com/science/article/pii/S0378779622009609?via%3Dihub , Revista ISI - Impact factor 3.9, Q2	(25+20*3.90)/8=12,87
	Dragos Machidon, Marcel Istrate, <i>Tilt Angle Adjustment for Incident Solar Energy Increase: A Case Study for Europe</i> , Sustainability 2023, 15(8), 7015; https://doi.org/10.3390/su15087015 , Received: 20 March 2023 / Revised: 19 April 2023 / Accepted: 20 April 2023 / Published: 21 April 2023, https://www.mdpi.com/2071-1050/15/8/7015 , Revista ISI - Impact factor 3.889, Q2	(25+20*3.889)/2=51,39
	Ioan Viorel Banu, Fadila Barkat, Marcel Istrate, Josep M. Guerrero, George Culea, Petru Livinti, Justina G. Motasb, Bogdan Neagu, Dragos Andrioaia, <i>Passive anti-Islanding protection for Three-Phase Grid-Connected photovoltaic power systems</i> , January 2023, International Journal of Electrical Power & Energy Systems 148:108946, DOI: 10.1016/j.ijepes.2023.108946, journal homepage: www.elsevier.com/locate/ijepes , https://doi.org/10.1016/j.ijepes.2023.108946 , https://www.sciencedirect.com/science/article/pii/S0142061523000030?via%3Dihub , Revista ISI - Impact factor 5,2, Q1	(25+20*5.20)/9=14,33
	Fadila Barkat; Ali Cheknane; Josep M. Guerrero; Abderezak Lashab; Marcel Istrate; Ioan Viorel Banu, <i>Hybrid islanding detection technique for single-phase grid-connected photovoltaic multi-inverter systems</i> , IET Renewable Power Generation (factor de impact 3,894), DOI: 10.1049/iet-rpg.2019.1183, Print ISSN 1752-1416, Online ISSN 1752-1424 Available online: 16 February 2021, https://digital-library.theiet.org/content/journals/10.1049/iet-rpg.2019.1183 , WOS:000634802700031	(25+20*3,894)/6=17,14
	Neagu, B.-C.; Ivanov, O.; Grigoras, G.; Gavrilas, M.; Istrate, D.-M. <i>New Market Model with Social and Commercial Tiers for Improved Prosumer Trading in Microgrids</i> . Sustainability 2020, 12, 7265, (factor de impact 3,251) doi:10.3390/su12187265, WOS:000584284700001	(25+20*3,251)/5=18,00
	Postolaty, V; Berzan, V; Bykova, E; Bosneaga, V; Suslov, V; Ermurachi, I; Grigoras, Gh; Gavrilas, M; Istrate, M, <i>Estimation of Power Exchange through 110 kV Overhead Power Lines at the Interface of the Romanian and Moldovan Power Systems</i> , PROBLEMELE ENERGETICII REGIONALE, Issue: 2, Pages: 46-61, DOI: 10.5281/zenodo.1343396,	2,77

	Published: 2018, pISSN: 1857-0070, Publisher: INST POWER ENGINEERING ACAD SCIENCES MOLDOVA, WOS:000441795300006.	
	Nemes C., Istrate M. , <i>A clear sky irradiation assessment using the ESRA model and SRTM database</i> , Environmental Engineering and Management Journal, vol. 12 (June 2013), no. 6, pp. 1271-1279. ISSN 1582-9596, http://omicron.ch.tuiasi.ro/EEMJ/ ; http://omicron.ch.tuiasi.ro/EEMJ/issues/vol12/vol12no6.htm	$(25+20 \cdot 1,258)/2=25,08$
	Lunca E., Istrate M. , Salceanu A., <i>Comparative Analysis of The Extremely Low-Frequency Magnetic Field Exposure from Overhead Power Lines</i> , Environmental Engineering and Management Journal, vol. 12 (June 2013), no. 6, pp. 1145-1151. ISSN 1582-9596, http://omicron.ch.tuiasi.ro/EEMJ/ ; http://omicron.ch.tuiasi.ro/EEMJ/issues/vol12/vol12no6.htm	$(25+20 \cdot 1,258)/3=16,72$
	Ursulean R., Lazar A.M., Istrate M. , <i>A New Method to Evidence the P300 Event-related Potential based on a Lifting Scheme</i> , Elektronika Ir Elektrotehnika. Electronics, No. 2 Vol.19, 2013, ISSN 1392–1215, pp. 31-36, Electronic version: http://dx.doi.org/10.5755/j01.eee.19.2.2348 http://www.eejournal.ktu.lt/index.php/elt/article/view/2348	$(25+20 \cdot 0,445)/3=11,30$
	Nemes C., Istrate M. , <i>Statistical Analysis of Wind Turbine's Output Power</i> , Electronics and Electrical Engineering Journal, No. 4 (120), 2012, pp. 31-34, ISSN 1392 – 1215, http://www.ee.ktu.lt/news.php Online: http://dx.doi.org/10.5755/j01.eee.120.4.1447	$(25+20 \cdot 0,445)/2=16,95$
	Ursulean R., Lazar A.M., Istrate M. , <i>The Sensitivity of the Fractal Spectrum: a Means of Controlling the Statistical Properties of Chaotic Signals</i> , Elektronika Ir Elektrotehnika. Electronics, No. 8(114), 2011, ISSN 1392–1215, pp. 21-26, Electronic version, http://www.ee.ktu.lt/page.php?245	$(25+20 \cdot 0,445)/3=11,30$
	Ursulean R., Lazăr A.-M., Istrate M. , <i>Structuring Elements for the P300 Event-related Potential Detection</i> , Elektronika Ir Elektrotehnika. System Engineering, Computer Technology, No. 9(105), 2010, ISSN 1392–1215, pp. 85-88, Electronic version http://www.ktu.lt/lt/mokslas/zurnalai/elektros_z/turin105.asp ; http://www.ee.ktu.lt/page.php?232	$(25+20 \cdot 0,445)/3=11,30$
	Istrate M. , Grigoraş Gh., <i>Energy Consumption Estimation in Water Distribution Systems Using Fuzzy Techniquis</i> , Environmental Engineering and management Journal, Vol. 9, No.2, pp.249-256, February 2010. ISSN 1582-9596, http://omicron.ch.tuiasi.ro/EEMJ/ , http://www.tuiasi.ro/index.php?page=944 ; http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=Refine&qid=6&SID=W15KpoJclJKid65o9nN&page=1&doc=1&colname=WOS	$(25+20 \cdot 1,258)/2=25,08$
	Istrate M. , Gusa M., <i>Assessment Of Two Single-End Fault Location Algorithms In An ATP Approach</i> , Revue Roumaine de Sciences Techniques – Électrotechnique et Énergétique, Tome 54, 4, pp. 345-354, ISSN: 0035-4066, (http://revue.elth.ro/index.php?action=details&id=194 – http://www.cncsis.ro/articole/5/Evaluare-reviste-2009.html , http://apps.isiknowledge.com), Bucarest, 2009.	$(25+20 \cdot 0,368)/2=16,18$
	Istrate, M. , Miron, A., Istrate, C., Gusa, M., Machidon, D., <i>Single-phased Fault Location on Transmission Lines Using Unsynchronized Voltages</i> , Advances in Electrical and Computer Engineering, Issue 3, 2009, pages 51-56, ISSN: 1582-7445, e-ISSN: 1844-7600, Digital Object Identifier: 10.4316/AECE.2009.03010, http://www.aece.ro/index.php (http://www.aece.ro/abstractplus.php?year=2009&number=3&article=10) (http://www.cncsis.ro/articole/5/Evaluare-reviste-2009.html , http://apps.isiknowledge.com), 2009	$(25+20 \cdot 0,642)/5=7,56$
	Razvan BENIUGA, Oana BENIUGA, Florin C. BAICEANU, Marcel ISTRATE, <i>The Influence of Feedwater Preheaters on the Power Plant Thermal Efficiency</i> , 2021 9th International Conference on Modern Power Systems MPS 2021, paper ID 038, 978-1-6654-3382-2/21/\$31.00 ©2021 IEEE, DOI: 10.1109/MPS52805.2021.9492578, https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9492627 WOS:000941563300057	6,25
	Razvan BENIUGA, Oana BENIUGA, Dragos MACHIDON, Marcel ISTRATE, <i>Wind Power in Romania Energy Mix Towards Sustainable Development</i> , 2021 9th International Conference on Modern Power Systems MPS 2021, paper ID 107, 978-1-6654-3382-2/21/\$31.00 ©2021 IEEE, DOI: 10.1109/MPS52805.2021.9492578, https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9492673 , WOS:000941563300081	6,25
	Dragos MACHIDON, Marcel ISTRATE, Roxana OPREA, Razvan BENIUGA, <i>Performance Analysis of Double-Axis</i>	6,25

	<i>Orientating Low Concentration Photovoltaic Systems</i> , 2021 9th International Conference on Modern Power Systems MPS 2021, paper ID 024, 978-1-6654-3382-2/21/\$31.00 ©2021 IEEE, DOI: 10.1109/MPS52805.2021.9492578, https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9492623 , WOS:000941563300054	
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		Asaftei C., Gușă M., Istrate M. , Gavrilăș N, Ciutea I., <i>Sistem de semna-lizare locală și la distanță</i> , Brevet România nr. 105862 C1/1992, Interna-tional Patent Classification G01R-031/02, http://apps.isiknowledge.com	5,00
		Asaftei C., Gușă M., Gabură A., Istrate M. , Gavrilăș N., Tărăboanță I., <i>Receptor pilotat cu cuarț</i> , Brevet România, nr. 105747 C1/1992, Interna-tional Patent Classification H02J-013/00, http://apps.isiknowledge.com	4,16
		Asaftei C., Gușă M., Gabură A., Istrate M. , Gavrilăș N., Tărăboanță I., <i>Emitător pilotat cu cuarț</i> , Brevet România, nr. 105754 C1/1992. Interna-tional Patent Classification H04B-003/54 http://apps.isiknowledge.com	4,16
		Asaftei C., Gușă M., Istrate M. , Gavrilăș N., <i>Instalație pentru emiterea semnalelor electrice pe linii de medie tensiune</i> , Brevet România, nr.105638 B1/1992. International Patent Classification H04B-003/54, http://apps.isiknowledge.com	6,25
		Gușă M., Gavrilăș N., Asaftei C., Istrate M. , <i>Regulator automat pentru bobine de stingere</i> , Brevet România, nr. 104711/1991. International Patent Classification H02J-003/18, http://apps.isiknowledge.com . Acest brevet a fost medaliat cu argint la la Salonul internațional al invențiilor și tehnicii noi, Iași 1994 și medaliat cu aur la Salonul internațional al invențiilor "EUREKA '94"- Bruxelles, 1994.	6,25
		Istrate M. , Gușă M., Asaftei C., Gavrilăș N., <i>Dispozitiv trifazat de semnalizare locală și la distanță</i> , Brevet România nr. 104650/1991, Inter-national Patent Classification H02H-007/26, http://apps.isiknowledge.com	6,25
		Istrate M. , Gușă M., Asaftei C., Gavrilăș N., <i>Releu de semnalizare locală și la distanță</i> , Brevet România, nr.104649/1991, International Patent Classification H02H-007/26, http://apps.isiknowledge.com	6,25
		Asaftei C., Gușă M., Istrate M. , Gavrilăș N., Botez C., <i>Receptor de semnale codificate</i> , Brevet România, nr. 104264/1991, International Patent Classification G08B-025/00, http://apps.isiknowledge.com	5,00
		Gușă M., Asaftei C., Istrate M. , Gavrilăș N., <i>Instalație de semnalizare centralizată</i> , Brevet România, nr. 103783/1991, International Patent Classification G08B-025/00, http://apps.isiknowledge.com	6,25

			Asaftei C., Gușă M., Istrate M. , Gavrilas N., Ciutea I., <i>Receptor pentru semnalizarea centralizată a zonelor cu defect de izolație pe linii electrice de medie tensiune</i> , Brevet România, nr. 103548/1991, International Patent Classification H02J-013/00, http://apps.isiknowledge.com	5,00
			Istrate M. , Gușă M., Asaftei C., Gavrilas N., Suflețel N., Botez C., <i>Metodă și dispozitiv emițător pentru stabilirea zonelor cu defect de izolație</i> , Brevet România, nr.103448/1991, International Patent Classification G01N-031/03, http://apps.isiknowledge.com	4,16
			Asaftei C., Gușă M., Gavrilas N., Istrate M. , Suflețel N., <i>Dispozitiv de semnalizare a depășirii unui curent maxim într-un conductor</i> , Brevet România, nr. 103490/1990, International Patent Classification H02H-003/04, http://apps.isiknowledge.com	5,00
			Total A2.3.	91,23
		2.4 Granturi/proiecte câștigate prin competiție	2.4.1.1 Director/ responsabil – granturi/proiecte internaționale	20*ani de desfășurare
			<i>Energy Generation from Non-Powered Dams - ENERGYDAM</i> , Contractul nr. 11155/06.04.2022 TUIASI, Innovation Norway No. 2021/332809 din 24.03.2022, EEA and Norway Grants 2014-2021, Implementare iunie 2022-decembrie 2023, Total proiect: 346958 Euro, Istrate M – Manager proiect	40,00
			2.4.1.2 Director/ responsabil – granturi/proiecte naționale	10*ani de desfășurare
			<i>Dezvoltarea Instituțională a TUIASI Prin Creșterea Performanței în Cercetare, Dezvoltare și Inovare COMPETE 2.0</i> , https://www.compete.tuiasi.ro/ , finanțat prin Contractul nr. 27PFE/30.12.2021– Proiecte de finanțare a excelenței în CDI din cadrul PNCDI III. Domeniul 3 – Energie, mediu, schimbări climatice, Suma bugetată = 6.578.117 lei, în trei etape anuale (2022, 2023, 2024), Istrate M – Responsabil științific	30,00
			<i>Dezvoltarea Instituțională a TUIASI Prin Creșterea Vizibilității și a Performanței Cercetării TUIASI-COMPETE</i> , https://www.compete.tuiasi.ro/ , finanțat prin Contractul nr. 9PFE/2018 în cadrul Programului 1 - Dezvoltarea sistemului național de cercetare-dezvoltare, Subprogramul 1.2 – Performanță instituțională – Proiecte de dezvoltare instituțională – Proiecte de finanțare a excelenței în CDI din cadrul PNCDI III. Domeniul 3 – Energie, mediu, schimbări climatice, Suma bugetată = 4.530.000 lei, în trei etape anuale (2018-2020), Istrate M – Responsabil științific	30,00
			<i>Instrument software destinat creșterii securității sistemelor electroenergetice prin coordonarea protecției de distanță, dezvoltat pe baza unor tehnici de inteligență artificială</i> . Grant CNCSIS, A, contract nr. GR 77/11.06.2008, tema nr. 20, cod CNCSIS 283; Istrate M.-Director grant , Gușă M., Gavrilas M., Asandei D., Temnenau C. Valoare 36000 RON (Medie grant CNCSIS-UTI 2008 – 107860).	10,00

			<i>Instrument software destinat creșterii securității sistemelor electroenergetice prin coordonarea protecției de distanță, dezvoltat pe baza unor tehnici de inteligență artificială. Grant CNCISIS, A, contract nr. GR 80 /23.05.2007, tema nr. 28, cod CNCISIS 283; Istrate M.-Director grant, Gușă M., Gavrilas M., Asandei D., Temneanu C. Valoare 44000 RON. (Medie grant CNCISIS-UTI 2007 – 41408).</i>	10,00
			<i>Instrument software destinat creșterii securității sistemelor electroenergetice prin coordonarea protecției de distanță, dezvoltat pe baza unor tehnici de inteligență artificială. Grant CNCISIS, A, contract nr. 2735/ 19.05.2006, tema nr. 16, cod CNCISIS 283; Istrate M.-Director grant, Gușă M., Gavrilas M., Asandei D., Temneanu C.; Valoare 46000 RON. (Medie grant CNCISIS-UTI 2006 – 24949,21)</i>	10,00
			<i>Studiu privind expertizarea instalațiilor de 110 și 220 kV din stația FAI, urmare modificării schemelor de conexiuni, prin metoda electrogeometrică, privind riscul producerii loviturilor directe de trăsnet în echipamentele stației; Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău, 2009, tema 9958P/15.07.2009, Istrate M.- Director tema, Gușă M, Machidon D. Valoare 48000+TVA RON; Contract obținut prin procedura de licitație deschisă – publicată pe SEAP; Cursul de schimb valutar BNR la data semnării contractului a fost de 4,2175 lei/Euro (echivalentul în Euro al sumei contractate este de 11381,5 Euro fara TVA sau 13543,6 Euro cu TVA). Asimilat grant de cercetare obținut prin competiție, conform Ordin MECT nr. 5896, din 11.11.2008</i>	10,00
			<i>Studiu privind verificarea schemelor de protecție împotriva loviturilor directe de trăsnet în cazul stației 220/110/20 kV Munteni. Analiză comparată a metodei normate și a metodei electrogeometrice”, cod CPV 71335000-5; Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău, 2013, tema 8795/17.05.2013, Istrate M.- Director tema, Machidon D. Valoare 57000+TVA RON; Contract obținut prin procedura de licitație deschisă – publicată pe SEAP; Cursul de schimb valutar BNR la data semnării contractului a fost de 4,4111 lei/Euro (echivalentul în Euro al sumei contractate este de 12922 Euro fara TVA sau 16023 Euro cu TVA). Asimilat grant de cercetare obținut prin competiție, conform Ordin MECT nr. 5896, din 11.11.2008</i>	10,00
			<i>Analiza asistată de calculator a riscului producerii loviturilor directe de trăsnet în echipamentele de 400/110 kV ale stației de transformare Roman Nord. Analiza comparată a metodei normate și a metodei electrogeometrice; Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău, 2012, tema 8731/25.05.2012, Istrate M.- Director tema, Machidon D. Valoare 77000+TVA RON; Contract obținut prin procedura de licitație deschisă – publicată pe SEAP; Cursul de schimb valutar BNR la data semnării contractului a fost de 4,45 lei/Euro (echivalentul în Euro al sumei contractate este de 17300 Euro fara TVA sau 21400 Euro cu TVA). Asimilat grant de cercetare obținut prin competiție, conform Ordin MECT nr. 5896, din 11.11.2008</i>	10,00
			<i>Studiu privind analiza asistată pe calculator a riscului producerii loviturilor de trăsnet în echipamente de 220kV și 400 kV ale stației de transformare Suceava. Analiza comparată a metodei normate și a metodei electrogeometrice; Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău, 2011, tema 1090P/03.05.2011, Istrate M.- Director tema, Gușă M, Machidon D. Valoare 70000+TVA RON; Contract obținut prin procedura de licitație deschisă – publicată pe SEAP; Cursul de schimb valutar BNR la data semnării contractului</i>	10,00

		a fost de 4,1073 lei/Euro (echivalentul în Euro al sumei contractate este de 17042,8 Euro fara TVA sau 21133,1 Euro cu TVA). Asimilat grant de cercetare obținut prin competiție, conform Ordin MECT nr. 5896, din 11.11.2008	
		2.4.2.2 Membru în echipa – granturi/proiecte naționale	2*ani de desfășurare
		<i>Sistem inteligent de predicție și control al congestiilor în rețelele de transport și distribuție la înaltă tensiune</i> , Grant PN2-Parteneriate, contract 22-126 / 2008, membru în echipa de cercetare; Valoare UTI: 1.800.000 lei, Valoare UTI 2008: 67779, 5 membri/2008 în echipa de cercetare, Director proiect: Mihai Gavrilăș, Istrate M.. – responsabil partener UTI. (Medie grant CNCSIS-UTI 2008 – 107860)	2,00
		<i>Sistem video automatizat cu grad ridicat de interschimbabilitate pentru etalonare metrologică a echipamentelor de măsurare</i> ; Grant PN2-Parteneriate, contract 72-173/2008, director C. Donciu; Valoare UTI: 1.130.000 lei; 17 membri în echipa de cercetare, Istrate M.. – membru echipa partener UTI. (Medie grant CNCSIS-UTI 2008 – 107860)	2,00
		<i>Sistem informatic de instruire interactiva bazat pe algoritmi multitask de mare viteza, dezvoltat pe platforma reconfigurabila online pentru aplicatii de tip laborator virtual.</i> , Proiect CEEX Modul 1 – INFOSOC, Contract nr. 137 / 02.10.2006, Director proiect: Codrin Donciu, Durata proiect 1 an si 11 luni (predare etapa finala 30.08.2008), Valoare totala proiect: 880.000 lei, Valoare UTI: 606.164 lei, Istrate M.. – membru echipă partener UTI. (Medie grant CNCSIS-UTI 2006 – 24949,21)	2,00
		<i>Cercetări privind oportunitatea instalării de descărcătoare cu rezistență variabilă pe liniile electrice aeriene</i> ; Grant CNCSIS, contract 2741/ 19.05.2006, tema 40, cod CNCSIS 483, Colectiv: Gușă M- Director grant, Istrate M. , Valoare contract: 10000 RON (Medie grant CNCSIS-UTI 2006 – 24949,21)	2,00
		<i>Cercetări privind oportunitatea instalării de descărcătoare cu rezistență variabilă pe liniile electrice aeriene</i> ; Grant CNCSIS, A, contract 27637/2005, tema 28, cod CNCSIS 483, Colectiv: Gușă M – Director grant, Istrate M. , Bucă C., Valoare contract: 100000000 lei (Medie grant CNCSIS-UTI 2005 – 167938756)	2,00
		<i>Protecția rețelilor de distribuție de JT împotriva supratensiunilor transmise din rețelele de MT.</i> Grant ANSTI, contract nr. 6177/2000, număr temă: B-50. Două etape: 2000 și 2001. Colectiv: Gușă M.- Director grant, Istrate M. Valoare contract: 43100000 lei (Medie grant CNCSIS-UTI 2000 - 37580232)	2,00
		Total A2.4.	182,00
	2.5 Contracte de cercetare/consultanță	2.5.1 Responsabil	5*ani de desfășurare

		(valoare echivalentă de minim 2 000 Euro)	<i>Analiza regimurilor tranzitorii electromagnetice în rețele de medie tensiune în vederea implementării automatizării de reanclanșare rapidă monofazată, Contractul de cercetare nr. 1264P/21.01.2019, Istrate M.- Director tema, Beneficiar: SC EXIMPROD GRUP SA, cu sediul în Buzău, contract obținut prin negociere directă – suma totală 10000 lei +TVA</i>	5.00
			<i>Analiza și interpretarea datelor, întocmirea algoritmilor de prelucrarea datelor, simularea asistată de calculator și întocmirea rapoartelor de simulare, cod CPV 71335000-5; Beneficiar: Societatea pentru Servicii de Mentenanță a Rețelei Electrice de Transport "SMART" S.A. București Sucursala de Mentenanță SIBIU, 2015-2018, tema 27373/22.12.2015, Istrate M.- Responsabil contract, Machidon D. Contract obținut prin procedura de licitație deschisă – publicată pe SEAP. Valoare studiu: 185.000 lei +TVA.</i>	15.00
			<i>Analiza asistată de calculator a influenței defectelor din rețeaua de 110 kV asupra funcționării rețelei de transport a ST Bacău, Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău, tema 2220P/02.06.2006, Istrate M - Responsabil contract, Gușă M.. Valoare 35700 RON cu TVA, contract obținut prin procedura de licitație deschisă. Cursul de schimb valutar BNR la data semnării contractului a fost de 3.5309 lei/Euro (echivalentul în Euro al sumei contractate este de 10110.7 Euro cu TVA) (Medie grant CNCSIS-UTI 2006 – 24949,21)</i>	5.00
			<i>Analiza asistată de calculator a riscului producerii loviturilor directe de trăsnet în echipamentele stației 220/110 kV Dumbrava. Aplicație a metodei electrogeometrice, Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău, tema 2219P/02.06.2006 Istrate M.- Responsabil contract, Gușă M. Valoare 23800 RON cu TVA, contract obținut prin procedura de licitație deschisă. Cursul de schimb valutar BNR la data semnării contractului a fost de 3.5309 lei/Euro (echivalentul în Euro al sumei contractate este de 6740,5 Euro cu TVA) (Medie grant CNCSIS-UTI 2006 – 24949,21)</i>	5.00
			<i>Aplicație software pentru analiza regimurilor electromagnetice tranzitorii generate de funcționarea unor protecții și instalații automate din RET 220/400 kV. Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău (contract obținut prin procedura de licitație deschisă, la care au fost și alți participanți - TRAPEC București), Tema 61P/2003. Istrate M. – Responsabil contract, Gușă M. Valoare contract 77350000 lei cu TVA. (Medie grant CNCSIS-UTI 2003 – 68185246)</i>	5.00
			<i>Analiza asistată de calculator a funcționării protecțiilor de distanță în rețeaua de transport 220/400 kV a S.T. Bacău. Beneficiar: CN Transelectrica - ST Bacău, 2001. Istrate M. – Responsabil contract, Gușă M. Valoare contract 48 milioane lei. (Medie grant CNCSIS-UTI 2001 – 39464844)</i>	5.00
			<i>Analiza supratensiunilor interne în rețelele de 110 kV și 220 kV cu considerarea unor fenomene nelineare. Beneficiar: Filiala de Rețele Electrice Iași, Teama 6147/1996. Istrate M. – Responsabil contract, Gușă M, Gavrilăș N., Asaftei C. Valoare contract: 4000000 lei (Medie grant CNCSIS-UTI 1996 - 4702018)</i>	5.00

		<i>Determinarea supratensiunilor în rețele de înaltă tensiune cu considerarea unor pierderi și neliniarități.</i> Beneficiar: Filiala de Rețele Electrice Iași, 1995, Tema 6456, Istrate M. – Responsabil contract, Gușă M, Gavrilăș N., Asaftei C.; Valoare contract: 3000000 lei, Medie grant CNCSIS-UTI 1995 - 2312174)	5.00
		<i>Aplicație software pentru analiza regimurilor electromagnetice tranzitorii generate de funcționarea unor protecții și instalații automate din RET 220/400 kV.</i> Beneficiar: CN Transelectrica SA, Sucursala de Transport Bacău (contract obținut prin procedura de licitație deschisă, la care au fost și alți participanți - TRAPEC București), Tema 61P/2003. Istrate M. – Responsabil contract, Gușă M. Valoare contract 77350000 lei cu TVA. (Medie grant CNCSIS-UTI 2003 – 68185246)	5.00
		<i>Analiza asistată de calculator a funcționării protecțiilor de distanță în rețeaua de transport 220/400 kV a S.T. Bacău.</i> Beneficiar: CN Trans-electrica - ST Bacău, 2001. Istrate M. – Responsabil contract, Gușă M. Valoare contract 48 milioane lei. (Medie grant CNCSIS-UTI 2001 – 39464844)	5.00
		<i>Analiza supratensiunilor interne în rețelele de 110 kV și 220 kV cu considerarea unor fenomene nelineare.</i> Beneficiar: Filiala de Rețele Electrice Iași, Teama 6147/1996. Istrate M. – Responsabil contract, Gușă M, Gavrilăș N., Asaftei C. Valoare contract: 4000000 lei (Medie grant CNCSIS-UTI 1996 - 4702018)	5.00
		2.5.2 Membru echipa	2*ani de desfășurare
		<i>Cercetări privind determinarea profilului de viteze ale vântului din diferite amplasamente din țară,</i> Contract cercetare științifică, Beneficiar – SC. WPD Romania SRL, Tema 2592P/26.01.2022, 2022, Responsabil contract - Machidon D., Membri: Beniuga R., Istrate M., Valoare contract: 51.000 lei (exclusiv TVA).	2,00
		<i>Studiul zonelor de protecție prin metoda sferei fictive aplicată stației de transformare 400(220)/110 kV Munteni.</i> Beneficiar: C.N. Transelectrica SA, S.T. Bacău, Tema 61P/2003. Colectiv: Gușă M., Istrate M., Bucă C., Valoare contract 71400000 lei cu TVA (Medie grant CNCSIS-UTI 2003 – 68185246)	2,00
		<i>Analiza modului de realizare a protecției împotriva loviturilor directe de trăsnet în stația de transformare Iași - Sud.</i> Beneficiar: S.D.F.E.E. Iași Tema 965P/2002. Colectiv: Gușă M., Istrate M. Valoare contract 47600000 lei cu TVA. (Medie grant CNCSIS-UTI 2002 – 46953889)	2,00
		<i>Studiul zonelor de protecție împotriva loviturilor directe de trăsnet prin metoda sferei fictive – Aplicație pentru stația de transformare Suceava.</i> Beneficiar: S.D.E.E. Bacău, Tema 422P/2002. Col.: Gușă M., Istrate M. Valoare contract 50000000 lei cu TVA.	2,00

			(Medie grant CNCSIS-UTI 2002 – 46953889)	
			<i>Analiza asistată a regimurilor tranzitorii din rețelele de joasă tensiune.</i> Beneficiar: Electrica S.A. – S.D.E.E. Bacău, Tema 807P/2001. Asaftei C., Istrate M. , Gușă M. Valoare contract 65000000 lei cu TVA. (Medie grant CNCSIS-UTI 2001 – 39464844)	2,00
			<i>Studiul zonelor de protecție împotriva loviturilor directe de trăsnet prin metoda sferei fictive–Aplicație pentru stația de transformare Roman Nord.</i> Beneficiar: SDEE Bacău, Tema 194P/2001. Colectiv: Gușă M., Istrate M. Valoare contract 40000000 lei cu TVA (Medie grant CNCSIS-UTI 2001 – 39464844)	2,00
			<i>Evaluarea nivelului de ținere la impuls de trăsnet a izolației echipamen-telor de joasă tensiune din posturile de transformare MT/JT.</i> Beneficiar: S.D.E.E. Bacău, Tema 1627P/2000. Col.: Gușă M., Istrate M. , Asaftei C. Valoare contract: 50000000 lei (Medie grant CNCSIS-UTI 2000 - 37580232)	2,00
			<i>Soluții pentru evitarea incendiilor determinate de trăsnet la rezervoarele metalice cu capac flotant pentru produse petroliere.</i> Beneficiar: S.C. “Oil Terminal” S.A. Constanța, Tema 1633P/2000. Col.: Gușă M., Istrate M. Valoare contract: 15500000 (Medie grant CNCSIS-UTI 2000 - 37580232)	2,00
			<i>Studiul asistat de calculator al protecției stațiilor de transformare împotriva loviturii directe de trăsnet.</i> Beneficiar: Sucursala de Transport a Energiei Electrice Constanța; Tema 1740P/1999(2000). Colectiv: Gavrilaş N., Istrate M. , Gușă M., Valoare contract: 60000000 (Medie grant CNCSIS-UTI 2000 - 37580232)	2,00
			<i>Transmiterea supratensiunilor de trăsnet prin transformatoarele de distribuție de medie tensiune/joasă tensiune.</i> Beneficiar: S.D.E.E. Iași, Tema 567P/2000. Colectiv: Gușă M., Istrate M. , Asaftei C. Valoare contract: 45000000 lei (Medie grant CNCSIS-UTI 2000 - 37580232)	2,00
			<i>Studiu privind modelarea pe calculator a regimurilor de defect monofazat în rețeaua de distribuție de 20 kV a municipiului Galați, având neutrul tratat prin rezistor.</i> Beneficiar: S.D.E.E. Galați, Tema 849P/2000. Colectiv: Asaftei C., Istrate M. , Gușă M. Valoare contract: 40000000 lei (Medie grant CNCSIS-UTI 2000 - 37580232)	2,00

		<i>Analiza regimurilor complexe de avarie și postavarie în rețeaua de transport a STD Bacău.</i> Beneficiar: Sucursala Transport Dispecer Bacău, Tema 303P/1999. Colectiv: Gușă M., Istrate M. Valoare contract: 45000000 lei (Medie grant CNCSIS-UTI 1999 - 31493220)	2,00
		<i>Protecția împotriva supratensiunilor atmosferice a posturilor de transformare MT/JT și a rețelei de joasă tensiune aferente.</i> Beneficiar: S.D.E.E. Bacău, Tema 283P/1998. Colectiv: Gușă M., Istrate M., Asaftei C. Valoare contract: 30000000 (Medie grant CNCSIS-UTI 1998 - 23156250)	2,00
		<i>Analiza tensiunilor de regim tranzitoriu în zona de rețea de medie tensiune a municipiului Sibiu.</i> Beneficiar: S.D.E.E. Sibiu, Tema 147P/1998. Colectiv: Gușă M., Istrate M., Gavrilăș N. Valoare contract: 30000000 lei (Medie grant CNCSIS-UTI 1998 - 23156250)	2,00
		<i>Sistem de autodeclanșare selectivă, telecomandă și telesemnalizare centralizată pentru rețelele aeriene de 20 kV.</i> Beneficiar: F.T.D.E.E. Suceava, Tema 3587/1997. Colectiv: Asaftei C., Istrate M., Gușă M., Gavrilăș N. Valoare contract: 15000000 lei (Medie grant CNCSIS-UTI 1997 - 8854723)	2,00
		<i>Studiu privind asigurarea selectivității și sensibilității protecției în rețelele de medie tensiune aferente stațiilor cu neutrul tratat prin rezistență din municipiul Botoșani.</i> Beneficiar: F.D.E.E. Botoșani, Tema 11941/1997. Colectiv: Gușă M., Istrate M., Gavrilăș N. Valoare contract: 12000000 (Medie grant CNCSIS-UTI 1997 - 8854723)	2,00
		<i>Realizarea unui tester de verificare a indicatoarelor de defect pe LEA de medie tensiune și montarea unor astfel de indicatoare în zona Tg.Frumos.</i> Beneficiar: F.R.E. Iași, Tema 9397/1996. Colectiv: Asaftei C., Istrate M., Gușă M., Gavrilăș N. Valoare contract: 4000000 lei (Medie grant CNCSIS-UTI 1996 - 4702018)	2,00
		<i>Optimizarea funcționării rețelelor compensate prin implementarea unor mijloace de detectare a defectelor monofazate.</i> Beneficiar: F.R.E. Iași, Tema 4730/1996. Colectiv: Gușă M., Istrate M., Gavrilăș N., Asaftei C. Valoare contract: 6000000 lei (Medie grant CNCSIS-UTI 1996 - 4702018)	2,00
		<i>Studiul posibilităților de detectare a zonelor de defect pe LEA de medie tensiune cu neutrul tratat cu bobină de stingere.</i> Beneficiar: F.R.E. Iași, 1995; Tema 6455; Colectiv: Gușă M., Istrate M., Gavrilăș N., Asaftei C. Valoare contract: 4000000 lei (Medie grant CNCSIS-UTI 1995 - 2312174)	2,00

		<i>Studiul posibilităților de realizare și realizarea unui tester de verificare a indicatoarelor de defect pe LEA de medie tensiune.</i> Beneficiar: F.R.E. Iași, 1994. Tema 3850; Colectiv: Asaftei C., Istrate M., Gușă M., Gavrilăș N. Valoare contract: 4000000 lei	2,00
		<i>Autodeclanșarea selectivă a separatoarelor de sarcină în SF6 de pe derivații și de pe axele de MT, cu semnalizare în stația de alimentare, prin transmisie pe conductoarele LEA.</i> Beneficiar: F.R.E. Suceava; Tema 6630/1994, 1995 și 1996. Tema 6630/1994,1995,1996 Colectiv: Asaftei C., Istrate M., Gușă M., Gavrilăș N. Valoare totala contract: 32000000 lei,	2,00
		<i>Solicitarea izolației liniilor electrice debucate.</i> Beneficiar: F.R.E. Bacău, 1994, Colectiv: Gușă M., Istrate M., Gavrilăș N., Asaftei C. Valoare contract: 1500000 lei	2,00
		<i>Comanda declanșării întrerupătoarelor din rețelele aeriene de 20 kV cu neutrul tratat prin rezistență și semnalizarea centralizată a funcționării acestuia.</i> Beneficiar: F.R.E. Suceava, 1993, Tema 6360; Colectiv: Gușă M., Gavrilăș N., Istrate M., Asaftei C. Valoare contract: 1000000 lei	2,00
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		<i>Cercetări privind implementarea și funcționarea unui sistem de semnalizare centralizată a defectelor în rețelele aeriene de distribuție de medie tensiune.</i> Beneficiar: RENEL, Divizia Strategie și Retehnologizare, București 1992, Tema 1433/1992; Colectiv: Asaftei C., Gușă M., Gavrilăș N., Istrate M.; Valoare contract: 700000 lei	2,00
		<i>Controlul stării izolației LEA de medie și înaltă tensiune.</i> Beneficiar: F.R.E. Bacău, 1992. Tema 9223; Gușă M., Gavrilăș N., Istrate M., Asaftei C. Valoare contract: 400000 lei	2,00
		<i>Proiectarea prototipului de sistem de semnalizare centralizată a defectelor în rețele electrice de distribuție.</i> Beneficiar: Ministerul Învățământului și Științei, 1992. Tema 1433; Colectiv: Asaftei C., Gușă M., Gavrilăș N., Istrate M. Valoare contract: 700000 lei	2,00
		<i>Studiul posibilităților de realizare a detectării și semnalizării centralizate a defectelor în rețelele electrice de distribuție.</i> Beneficiar: Ministerul Învățământului și Științei, 1991. Tema 2439 (1541); Colectiv: Asaftei C., Gușă M., Gavrilăș N., Istrate M. Valoare contract: 300000 lei	2,00
		<i>Realizarea și testarea sistemului de semnalizare centralizată a defectelor într-o rețea aeriană de 20 kV cu un singur emițător.</i> Beneficiar: I.R.E. Iași, 1991. Tema 6156; Colectiv: Asaftei C., Gușă M., Gavrilăș N., Istrate M. Valoare contract: 380000 lei	2,00

			Proiectarea, realizarea și experimentarea echipamentului pentru semnalizarea centralizată a defectelor într-o rețea aeriană de 20 kV. Beneficiar: I.R.E. Iași, 1990. Tema 229; Colectiv: Asaftei C., Gușă M., Gavrilăș N., Istrate M. Valoare contract: 230000 lei Cercetarea posibilităților de localizare de la distanță a scurtcircuitelor monofazate în rețelele aeriene de medie tensiune având neutrul tratat prin rezistor. Beneficiar: I.R.E. Iași, 1989., Tema 80; Colectiv: Asaftei C., Gușă M., Gavrilăș N., Istrate M. Valoare contract: 220000 lei	2,00 2,00
			Total A2.5.	127,00
			Total Criteriu Activitate de cercetare (A2)	1610,44
3	Recunoașterea și impactul activității (A3)	3.1 Citări în reviste WOS și volumele conferințelor WOS	3.1. WOS	5/nr. autori ai art. citat
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			3.3.2 naționale	0
		Total A3.3		20
		3.4 Membru în colectivele de redacție sau comitete științifice al revistelor și manifestărilor științifice, Organizator de manifestări științifice, Recenzor pentru reviste și manifestări științifice naționale și internaționale (punctajul se acorda pentru fiecare, revistă, manifestare științifică și recenzie)	3.4.1 ISI 1. Membru in colectivul de redactie al revistei Environmental Engineering and Management Journal, http://omicron.ch.tuiasi.ro/EEMJ/ed_board.htm 2. Membru Comitet stiintific The 9th International Conference on Modern Power System, - 15th- 17th June 2021, Cluj-Napoca, Romania, https://et.utcluj.ro/mps/committees.html 3. Membru Comitet stiintific The 12th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, - 25th- 27th May 2021, Bucuresti, Romania, http://atee.upb.ro/atee2021/index.php?action=committees 4. Membru al Comitetului Stiintific International al 10th International Conference on Energy and Environment, CIEM 2021, 14 - 15 October 2021, Bucuresti, Romania 5. Membru in comitetul stiintific international al conferintei ADVANCED TOPICS IN ELECTRICAL ENGINEERING – ATEE 2019. 6. Membru in Comitetul stiintific al Conferintei Internationale Modern Power Systems Conference, editia a 8-a, Cluj-Napoca, 21-23 mai, 2019 7. Membru Comitet stiintific international Conferinta 2019 International Conference on Electrical Engineering and Control Technologies CEECT 2019, Singapore, 5-7 decembrie, 2019, http://www.ceect.org/com.html 8. Membru al Comitetului Stiintific International al conferintei 9th International Conference on Energy and Environment, CIEM 2019, Timisoara, 17-18 octombrie 2019 9. Membru al Comitetului stiintific international al conferintei The 10th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING Bucharest, March 23-25, 2017, http://atee.upb.ro/atee2017/index.php?action=committees 10. Membru al Comitetului stiintific international–The 7th International Conference on Modern Power Systems MPS 2017, Cluj-Napoca, Romania http://www.et.utcluj.ro/mps/committees.html 11. Conference Chair – The 9th Edition of the International Conference And Exposition On Electrical And Power Engineering, 20-22 October 2016, Iasi, Romania, http://www.epe.tuiasi.ro/2016/ 12. Membru al Comitetului stiintific international al conferintei The 9th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING, Bucharest, May 7-9, 2015, http://atee.upb.ro/atee2015/index.php?action=committees 13. Conference Chair – The 8th Edition of the International Conference And Exposition On Electrical And Power Engineering, 16-18 October 2014, Iasi, Romania, http://www.epe.tuiasi.ro/2014/ 14. Technical Program Chair - The 7th Edition of the International Conference And Exposition On Electrical And Power Engineering, 25-27 October 2012, Iasi, Romania, http://www.epe.tuiasi.ro/2012/	140
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			2019. 45. Recenzie lucrare 54th International Universities Power Engineering Conference 3rd-6th September 2019, Bucharest, Romania (UPEC 2019), Paper ID:100, „Efficiency Investigation of a Grid Connected PV System with Power Smoothing”, 03 iunie 2019. 46. Recenzie lucrare pentru 2019 International Conference on ENERGY and ENVIRONMENT (CIEM 2019), Paper ID:32, „Measurement of Electric Field Intensity nearby High Voltage Power Stations”, 9 iunie 2019. 47. Recenzie lucrare pentru 2019 International Conference on ENERGY and ENVIRONMENT (CIEM 2019), Paper ID:33, „Measurements of Electromagnetic Field in High Voltage Power Stations”, 9 iunie 2019. 48. Recenzie lucrare pentru 2019 International Conference on ENERGY and ENVIRONMENT (CIEM 2019), Paper ID:152, „Impact Analysis of Distributed Generation on Voltage Stability in Radial Distribution Systems”, 6 septembrie 2019. 49. Recenzie lucrare Paper ID: EEEP42063, Multi-SGI Interconnected Real-Time HIL Simulation of Yu'E MMC-HVDC Project, conferinta The Fourth International Conference on Energy Engineering and Environmental Protection EEEP 2019, November 19-21 in Xiamen, China, http://www.iceeep.org/ , 4 noiembrie 2019, (am pdf doveditor) 50. Recenzie lucrare Paper ID: EEEP43012, Fault Diagnosis of Photovoltaic System Based on Machine Learning Model Fusion, conferinta The Fourth International Conference on Energy Engineering and Environmental Protection EEEP 2019, November 19-21 in Xiamen, China, http://www.iceeep.org/ , 4 noiembrie 2019, (am pdf doveditor) 51. Recenzie lucrare Paper ID: EEEP41138, Optimized Dispatching Based on Wind-Photovoltaic-Hydropower-Thermal-Bundled, conferinta The Fourth International Conference on Energy Engineering and Environmental Protection EEEP 2019, November 19-21 in Xiamen, China, http://www.iceeep.org/ , 5 noiembrie 2019, (am pdf doveditor) 52. Recenzie lucrare <i>An Article on Optimal Heat Extraction for Clean Geothermal Power Generation using Graphene Wire</i>, Submission ID: 09, ATEE 2021 53. Recenzie lucrare <i>Built-in Self-Test Circuits for High-Speed JESD204B Transceiver Controller</i>, Submission ID: 19, ATEE 2021 54. Recenzie lucrare <i>AI-based intelligent energy storage using Li-ion batteries</i>, Submission ID: 54, ATEE 2021 55. Recenzie lucrare <i>Examining the Performances of a Low Power Photovoltaic Installation</i>, Submission ID: 178, ATEE 2021 56. Recenzie lucrare <i>Iterative Improvement Algorithm Used in Distribution Network Reconfiguration for Power Losses Minimization</i>, Submission ID: 188, ATEE 2021 57. Recenzie lucrare <i>Romanian innovative system for power losses real time monitoring and analysis in electrical transmission and distribution systems</i>, Submission ID: 64, MPS 2021 58. Recenzie lucrare <i>A Romanian Solution for Real-time Monitoring of Overhead Transmission Lines</i>, Submission ID: 20, MPS 2021 59. Recenzie lucrare <i>Temperature Influence on Electrical Conductivity of PVC-TiO2</i>	
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			<i>Nanocomposites</i>, Submission ID: 81, MPS 2021 60. Recenzie lucrare <i>The Influence of the Geometric Shapes of the Component Elements of the Planar Filter on its Parameters</i>, Submission ID: 129, MPS 2021 61. Recenzie lucrare ID: 75, Adapted Grey Wolf Optimizer for Dynamic Economic Dispatch in a Hybrid Microgrid, CIEM 2021 62. Recenzie lucrare <i>Equivalent Models Of Nonlinear Circuit Elements In Nonsinusoidal Regime</i>, ID 24, The 9th International Conference on Modern Powwer System, - 21th-23th June 2023, Cluj-Napoca, Romania. 63. Recenzie lucrare <i>The influence of insulation active power losses on the single line-to-ground fault in medium voltage electrical networks with resonant grounding</i>, ID 31, The 9th International Conference on Modern Powwer System, - 21th- 23th June 2023, Cluj-Napoca, Romania. 64. Recenzie lucrare <i>Analysis of the Signals Propagation on Tansmission Lines using Analytical Formulae</i>, ID 169, The 9th International Conference on Modern Powwer System, - 21th- 23th June 2023, Cluj-Napoca, Romania. 65. Recenzie lucrare pentru revista Journal of King Saud University - Engineering Sciences, <i>OPTIMIZING PHOTOVOLTAIC PANEL TILT ANGLES FOR SOLAR ENERGY GENERATION IN THE NORTHERN HEMISPHERE: A NONLINEAR REGRESSION APPROACH</i>, Manuscript Number: JKSUES-D-24-00256, iunie 2024 66. Recenzie lucrare ID 185, The current state of switching principles and switching equipment in the medium voltage networks of the national energy system in Romania Their impact on the ambient environment, EPEi 2024, octombrie 2024, Iasi. 67. Recenzie lucrare ID 191, Optimizing the integration ef electricity produced by PV systems through demand management, EPEi 2024, octombrie 2024, Iasi. 68. Recenzie lucrare ID 193, Analysis of an Aggregate Entity from Romanian Market, EPEi 2024, octombrie 2024, Iasi. 69. Recenzie lucrare ID: 103, Comparative Analysis Concerning the Use of the Thermal Potential of Combustion Gases in Indus-trial Cogeneration Systems, Analelel Universitatii din Craiova, Electrical Engineering Series, decembrie 2024.	
			Total A3.4	1016,00
		3.5 Referent în comisii de doctorat	3.5.1 internaționale 1. Ovidiu Mihai BALAN, within an international joint supervision between The Paris Institute of Technology PARISTECH, France, and The University POLITEHNICA of Bucharest, Romania, under the coordination of Professor Daniel FROELICH and Professor Adrian BADEA, 2016 2. Yosef Elia, Universitatea Alexandru Ioan Cuza din Iasi, conducator prof. Valentin Nita si prof. Marcel Istrate, 27 iunie 2019	20
			3.5.2 naționale 1. Alexandru Miron,Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Nicolae Gavrilas, 2004. 2. Mircea Tamas,Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Calin Munteanu, 2007. 3. Hriscu Iuliana, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing.	315

		Mircea Gusa, 2010. 4. Doina Ilisiu, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Calin Munteanu, 2010. 5. Dragomir Marian, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Mircea Gusa, 2011. 6. Filip Bogdan, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Gheorghe Livint, 2011. 7. Comanescu Elena, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Gheorghe Cartina, 2011. 8. Iftime Cornel, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Mircea Gusa, 2011. 9. Ioan Rosca, Universitatea din Brasov, conducator prof.dr.ing. Dan Stoia, 2011. 10. Gaborean Antonescu Oana, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Calin Munteanu, 2012. 11. Hebedean Claudia, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Calin Munteanu, 2012. 12. Racasan Adina, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Vasile Topa, 2012. 13. Calota Onita, Universitatea Politehnica din Bucuresti, conducator prof.dr.ing. Sergiu Iliescu, 2012. 14. Ancas Liviu, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Vasile Topa, 2013. 15. Beniuga Razvan, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Marcel Istrate, 2013. 16. Machidon Dragos, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Mircea Gusa, 2013. 17. Simionescu Mugur, Universitatea din Craiova, conducator prof.dr.ing. Gheorghe Manolea, 2013. 18. Stahie Vasile, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Mihai Gavrilaș, 2013. 19. Tilea Ioan, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Calin Munteanu, 2013. 20. Toth Robert Tamas, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Roman Morar, 2013. 21. Albu Calin, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Vasile Topa, 2014. 22. Avram Alexandru, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Vasile Topa, 2014. 23. Chereches Robert, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Vasile Topa, 2014. 24. Vicol Bogdan, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Mihai Gavrilaș, 2014. 25. Mates Gheorghe, Universitatea Tehnica din Cluj Napoca, conducator prof.dr.ing. Calin Munteanu, 2015. 26. Dragomir Alin, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Maricel Adam, 2017. 27. Munteanu Adrian, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Maricel Adam, 11 septembrie 2018. 28. Oprea Roxana, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator	
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		prof.dr.ing. Marcel Istrate, 2020. 29. Dorin Alexandru Botoc, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Alexandru Salceanu, 2021. 30. Iftime Serba, Universitatea Tehnica „Gheorghe Asachi” din Iasi, conducator prof.dr.ing. Marcel Istrate, 2021. 31. Ungureanu Stefan, Universitatea Tehnica din Cluj-Napoca, conducator prof.dr.ing. Vasile Topa, 2022. 32. Gheorghiu Cristian, Universitatea Politehnica din Bucuresti, conducator prof.dr.ing. Gheorghe Stefan, 2022. 33. Iantoc Andreea, Universitatea Politehnica din Bucuresti, conducator prof.dr.ing. Constantin Bulac, 2022. 34. Postovei Adrian, Universitatea Politehnica din Bucuresti, conducator prof.dr.ing. Constantin Bulac, 2022. 35. Membru comisie sustinere publica doctorat UTCN, drd.Ciprian Ionut Florea, conducator prof.univ.dr.ing. Vasile Topa, Cluj, 16 iulie 2024 36. Membru comisie sustinere publica doctorat UTCN, drd. Mociran Bogdan, conducator prof.univ.dr.ing. Vasile Topa, Cluj, 20 septembrie 2024 37. Membru comisie sustinere publica doctorat TUIASI, drd. Atanasoae Marian, conducator prof.univ.dr.ing. Maricel Adam, Iasi, 26 septembrie 2024 38. Membru comisie sustinere publica doctorat UNST Politehnica Bucuresti, drd. Ion Georgiana, conducator prof.univ.dr.ing. Sorina Costinas, Bucuresti, 27 septembrie 2024 39. Membru comisie sustinere publica doctorat UNST Politehnica Bucuresti, drd. Muscai Cristian Mircea, conducator prof.univ.dr.ing. Valentin Navrapescu, Bucuresti, 26 septembrie 2024. Teze abilitare: 1. Fodorean Daniel, Universitatea Tehnica din Cluj Napoca, 2014. 2. Micu Dan, Universitatea Tehnica din Cluj Napoca, 2014. 3. Martis Claudia, Universitatea Tehnica din Cluj Napoca, 2014. 4. Vatau Doru, Universitatea Politehnica din Timisoara, 2014. 5. Darie George, Universitatea Politehnica din Bucuresti, 2015. 6. Lazaroiu Cristian George, Universitatea Politehnica din Bucuresti, 2015. 7. Munteanu Florin, Universitatea Tehnica „Gheorghe Asachi” din Iasi, 2015. 8. Necula Horia, Universitatea Politehnica din Bucuresti, 2015. 9. Costinas Sorina, Universitatea Politehnica din Bucuresti, 2016. 10. Porumb Radu, Universitatea Politehnica din Bucuresti, 2016. 11. Ulmeanu Paul, Universitatea Politehnica din Bucuresti, 2016. 12. Darabant Laura, Universitatea Tehnica din Cluj Napoca, 2016. 13. Popescu Luminita, Universitatea Politehnica din Bucuresti, 2016. 14. Poboroniuc Marian, Universitatea Tehnica „Gheorghe Asachi” din Iasi, 2016. 15. Dinca Cristian, Universitatea Politehnica din Bucuresti, 2017. 16. Marculescu Cosmin, Universitatea Politehnica din Bucuresti, 2017. 17. Minciuc Eduard, Universitatea Politehnica din Bucuresti, 2017. 18. Purcar Ioan Marius, Universitatea Tehnica din Cluj Napoca, 2021 19. Sanduleac Mihai, Universitatea Politehnica din Bucuresti, 2021 20. Bucur Diana Maria, Universitatea Politehnica din Bucuresti, 2021 21. Pacurar Claudia, Universitatea Tehnica din Cluj Napoca, 2022. 22. Membru sustinetre teza de abilitare, Univ. Tehnica Cluj-Napoca, conf.dr.ing. Adina-	
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			Nicoleta Giurgiuman, 1-2 aprilie 2024 23. Membru in comisia de abilitare a d-lui Craiu Ovidiu, Facultatea de Ing. Electrica, UPB, 9 iulie 2024 24. Membru in comisia de abilitare UNSTPB, Liliana Ioana VUTA, 7 noiembrie 2024	
			Total A3.5	335
		3.6 Premii	Academia Romana	0
			ASAS, AOSR, academii de ramura și CNCS	0
			premii internaționale 1. Brevet medaliat cu aur la Salonul internațional al invențiilor "EUREKA '94"- Bruxelles, 1994, Gușă M., Gavrilăș N., Asaftei C., Istrate M., Regulator automat pentru bobine de stingere, Brevet România, nr. 104711/1991. International Patent Classification H02J-003/18, http://apps.isiknowledge.com	10
			premii naționale în domeniu 1. Brevet medaliat cu argint la la Salonul internațional al invențiilor și tehnicii noi, Iași 1994. Gușă M., Gavrilăș N., Asaftei C., Istrate M., Regulator automat pentru bobine de stingere, Brevet România, nr. 104711/1991. International Patent Classification H02J-003/18, http://apps.isiknowledge.com 2. Profesor Bologna, Premiu decernat de ANOSR, sub egida Presedintiei Romaniei, 2012, http://www.profitari.ro/comunitate/professori-bologna.html#iasi , http://www.anosr.ro/wp-content/uploads/2014/01/Lista-Profesorilor-Bologna-2007-20132.pdf 3. Premiul acordat de Universitatea Tehnica „Gheorghe Asachi” din Iasi pentru grupul care a contribuit la atragerea celor mai multe fonduri private pentru cercetare, 185000 lei – Contractul din dec 2019 cu Transelectrica/Smart Sibiu, premiu acordat pe 15 noiembrie 2019, la nivelul TUIASI	15
			Total A3.6	25,00
		3.7 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării	3.7.1 Academia Romana	0
			3.7.2 ASAS, AOSR și academii de ramură	0
			3.7.3 Conducere internaționale	0
			asociații naționale	0
			3.7.4 Asociații profesionale	5,00
			Internaționale 1. Membru asociatia CIGRE Paris, http://www.cigre.org.ro/	
			Naționale 1. Membru Comitetul National Roman al CIGRE, http://www.cigre.org.ro/index.php/membri/membri-seniori 2. Membru Comitetul National Roman al Consiliului Mondial al	4,00

			Energiei, http://www.cnr-cme.ro/membri_individuali.html	
		3.7.5 Consilii și organizații în domeniul educației și cercetării	Conducere	0
			Membru 1. Membru CNATDCU, Stiinte ingineresti, Comisia pentru Inginerie Energetica, 2012-2016; 2018- mai 2020 2. Membru al Registrului National al evaluatorilor ARACIS, Inginerie energetică - http://pfe.aracis.ro/inscriere/registru/lista_c_d/13/53/ 3. Membru al Consiliului National de Statistica si Prognoza pentru Invatamantul Superior CNSPIS, 2018 -prezent 4. Membru al comisiei de evaluare ARACIS a programului de studii de licenta „Energetica si Ingineria Fluidelor”, Facultatea de Energetica, UPB, 7-9 iulie 2021. 5. Membru comisie evaluare externa ARACIS a domeniului de studii de masterat Inginerie energetica, program de studii Managementul Sistemelor de Energie, Universitatea de Medicina, Farmacie, Stiinte si Tehnologie „George Emil Palade” Targu Mures, 14-16 februarie 2024 6. Membru comisie evaluare ARACIS, program studii master Sisteme moderne pentru conducerea proceselor energetice, Universitatea Stefan ce Mare din Suceava, 14-15.10.2024 7. Membru comisie evaluare ARACIS, evaluare institutionala Universitatea Stefan cel Mare din Suceava, responsabil program de studii de licenta Managementul Energiei, 28-30.10 2028. 8. Membru comisie evaluare ARACIS, program studii licenta Energetica Industriala Universitatea Vasile Alecsandri din Bacau, 4-6.12.2024 9. Presedinte comisie evaluare interna ARACIS, program de licenta Electronica Aplicata, facultatea ETTI, 4-9 decembrie 2024. 10. Membru comisie evaluare ARACIS, program studii licenta Energetica Industriala- invatamant dual, Universitatea Vasile Alecsandri din Bacau, 19-21 februarie 2025.	30,00 (evaluarile ARACIS nu au fost introduse in calcul)
			Total A3.7	39,00
			Total A3	2030,16

Punctaj

Nr. crt	Domeniul de activitate	Condiții profesor	Punctaj obținut
1	Activitatea didactică/profesională (A1)	Minimum 120	334,52
2	Activitatea de cercetare (A2)	Minimum 360	1610,44
3	Recunoașterea impactului activității (A3)	Minimum 120	2030,16
TOTAL		Minimum 600	3975,12

TOATE CRITERIILE ȘI CERINȚELE SUNT ÎNDEPLINITE.

Data: mai 2025

Semnatura: Prof.univ.dr.ing. Dumitru-Marcel Istrate

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
FACULTATEA DE INGINERIE ELECTRICĂ, ENERGETICĂ ȘI INFORMATICĂ APLICATĂ
DEPARTAMENTUL DE ENERGETICĂ

FIȘA DE VERIFICARE
a îndeplinirii standardelor universității pentru postul de
profesor universitar

Numele și prenumele: ISTRATE Dumitru-Marcel / Data nașterii: 05.09.1960, Funcția actuală: profesor universitar, Data numirii în funcția actuală: 2001

Instituția: Universitatea Tehnică "Gheorghe Asachi" din Iași

1. Studiile universitare de licență

Nr. crt.	Instituția de învățământ superior și facultatea absolvită – anul absolvirii	D o m e n i u l / programul de studii (specializarea)	Titlul acordat	Media de școlaritate (min.8.00)	Media examenului de finalizare (min.9.00)
1	Institutul Politehnic "Gh.Asachi" din Iași, Facultatea de Electrotehnică - 1985	Energetic, specializarea Energetică	Inginer	9,66	10

2. Studiile universitare de master

Nr. crt.	Instituția de învățământ superior și facultatea absolvită – anul absolvirii	D o m e n i u l / programul de studii (specializarea)	Media de școlaritate (min.9.00)	Media examenului de finalizare (min.9.00)
1	Universitatea Tehnică "Gheorghe Asachi" din Iași, CRIAP 2 - 2009	Management și legislație în industrie, administrație și servicii	10	10

3.Studiile de doctorat

Nr. crt.	Instituția organizatoare de doctorat / Conducatorul de doctorat	D o m e n i u l	Perioada	Titlul științific acordat
1	Universitatea Tehnică "Gheorghe Asachi" din Iași /Prof.univ.dr.ing. Neculai Gavrilăș	Inginerie Energetică	1990 - 1996	Doctor inginer

4. Studii și burse postdoctorale (stagii de cel puțin 6 luni)

Nr. crt.	Țara / Instituția	Domeniul / Specializarea	Perioada	Tipul de bursă
	Nu este cazul (Am urmat doar două cursuri postuniversitare cu durată de câte trei luni, în domeniul auditului energetic)			

5. Grade didactice/profesionale

Nr. crt.	Instituția	Domeniul	Perioada	Titlul/postul didactic sau gradul/postul profesional
1	IEELIF Vaslui	Energetic	1985 - 1988	Inginer stagiar
2	Institutul Politehnic "Gh.Asachi" din Iași	Energetic	1988 - 1991	Asistent universitar
3	Universitatea Tehnică "Gheorghe Asachi" din Iași	Inginerie Energetică	1991 - 1997	Șef de lucrări
4	Universitatea Tehnică "Gheorghe Asachi" din Iași	Inginerie Energetică	1997 - 2001	Conferențiar
5	Universitatea Tehnică "Gheorghe Asachi" din Iași	Inginerie Energetică	2001 - prezent	Profesor
6	Universitatea Tehnică "Gheorghe Asachi" din Iași	Inginerie Energetică	2010 - prezent	Profesor, conducător de doctorat

Tabelul 1. Standardul minimal al universității SMU.PROF.1 – Activitatea didactică

Standardul minimal al universității SMU.PROF.1 – Activitatea didactică	Indicatori de performanță		Realizări (se trec cifrele de ordine ale realizărilor cuprinse în lista de lucrări, iar, după caz, celelalte realizări se nominalizează explicit)	Punctaj	Număr impus de realizări	Număr de realizări ale candidatului	Număr puncte
Valoarea contribuțiilor la dezvoltarea activităților didactice/profesionale, cu referire distinctă la realizările după acordarea ultimului titlu didactic/grad	Ca	Carte/ curs/ manual publicată în străinătate	-	8	-	0	0
		Capitol carte/ curs/ manual publicat în străinătate	-	6	-	0	0
		Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)	Ca1 – Ca5; Cb1 – Cb8 din lista de lucrări anexată	5	1	13	154,96
		Capitol curs/ manual publicat în editură recunoscută CNCS	-	3	-	0	0

profesional prin cărți publicate în edituri recunoscute, capitole teoretice redactate, sisteme de laborator funcționale, metode de lucru avansate aplicate etc. - după caz.	I	Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)		I1 – I4 din lista de lucrări anexată	4	1	4	22,15	
	D	Sisteme de laborator funcționale (numai pentru disciplinele prevăzute cu lucrări de laborator)	Amenajare lucrare nouă de laborator cu instalație experimentală	D2, D3, D4, D5, D11 din lista de lucrări anexată	2	2	5	19,00	
			Amenajare/ concepere lucrare nouă de laborator/ proiect/ simulare pe calculator/ studiu de caz	D1, D6, D7, D8, D9, D10 din lista de lucrări anexată	1.5		6		
			Contribuție la dotarea laboratoarelor, în valoare echivalentă cu 700 Euro	D12 din lista de lucrări anexată (instalație de încercare c.c. 600 kV, două întrerupătoare de M.T. cu SF6, descărcătoare cu rezistență variabilă, calculatoare, microcontrolere, mobilier didactic)	1	-	Contracte de cercetare și sponsorizări	50	
	W	Utilizarea sistemelor de predare/ învățare/ evaluare de tip e-learning/ on-line/ multimedia etc.	Suport de studiu/ autoinstruire pe Web pentru seminar, laborator, proiect (integral pentru o disciplină)	W4, W6, W7 din lista de lucrări anexată	1	1	3	3	
			Suport de prezentare/ instruire text/ video/ audio/ ppt a disciplinei	W1, W2, W3, W5 din lista de lucrări anexată	1		4	4	
Total puncte SMU.PROF.1 (min. 24)									253,11

Punctajul s-a calculat în conformitate cu Anexa 3 din procedură.

Data: mai 2025
Prof.univ.dr.ing. Dumitru-Marcel ISTRATE