

Fisa de verificare a standardelor minime necesare si obligatorii pentru conferirea titlurilor didactice din invatamantul superior si a gradelor profesionale de cercetare stabilite prin OM 6129 / 2016

Candidat: AVRAM ALEXANDRU

Data: 19.12.2024

Comisia: Electronică, telecomunicații și nanotehnologie

Punctaj total: 482.674

Postul vizat: Conferentiar

Scor=punctaj total/punctaj minim CNADCU: 1.207

Nr.	Domeniul activitatilor			Subcategorii		Indicatori (kpi)	Numar	Punctaj	FI	
0	1	2	3	4		5	6	7	8	
1	Activitatea didactica si profesionala (A1)	Carti de autor in edituri cu ISBN	Carti, monografii	A1.1.1.	internationale	50 (100)/nr. autori	0	0.00		
		Capitole de specialitate in edituri cu ISBN	Capitole			12.5 (25)/nr. autori	0	0.00		
		Carti de autor in edituri cu ISBN	Carti, monografii	A1.1.2.	nationale	50 /nr. autori	4	57.50		
		Capitole de specialitate in edituri cu ISBN	Capitole			12.5/nr. autori	0	0.00		
		Material didactic/lucrari didactice publicate in edituri cu ISBN	Manuale didactice	A1.2.1		40/nr. autori	2	23.33		
Total punctaj (A1)								80.833		
2	Activitatea de cercetare (A2)	Articole in reviste cotate ISI si lucrari in volumele unor manifestari stiintifice indexate ISI proceedings		A2.1		(25+30 * fact.imp) /nr. autori	19	191.79	12.800	
		Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale recunoscute (BDI)		A2.2		20/nr. autori	16	82.50		
		Proprietate intelectuala, brevete de inventie, certificate ORDA		A2.3.1	Internationale	35/nr. autori	0	0.00	0	
				A2.3.2	nationale	25/nr. autori	0	0.00	0	
		Granturi/proiecte castigate prin competitie sau contracte cu agenti economici in valoare de minim 10000 USD	Director / responsabil	A2.4.1.1	Internationale	20*ani desf.	0	0.00		
				A2.4.1.2	nationale	10*ani desf.	2	20.00		
				Membru in echipa	A2.4.2.1	Internationale	4*ani desf.	0	0.00	
					A2.4.2.2	nationale	2*ani desf.	9	30.00	
Total punctaj (A2)								324.289	12.800	
3	Recunoasterea si impactul activitatii (A3)	Citari in carti, reviste si volume ale unor manifestari stiintifice		A3.1.1	carti, ISI	8/nr. aut art. citat	26	47.352		
				A3.1.2	BDI	4/nr. aut art. citat	15	14.200		
		Membru in colectivele de redactie sau comitetele stiintifice ale revistelor indexate ISI, chair, co-chair sau membru in comitetele de organizare ale manifestarilor internationale indexate ISI	Punctaj unic pentru fiecare activitate	A3.2.		10	1	10		
		Membru in colectivele de redactie sau comitetele stiintifice ale revistelor indexate BDI, chair sau co-chair sau membru in comitetele de organizare ale manifestarilor stiintifice indexate BDI	Punctaj unic pentru fiecare activitate	A3.3		6	1	6		
		Premii in domeniu conferite de Academia Romana, ASTR, AOSR sau premii internationale de prestigiu		A3.4.		15	0	0		
Total punctaj (A3)								77.552		

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Conditii minimale (Ai)				
Nr.	Domeniu de activitate (A)	Necesar	Realizat	Indeplinit
A1	Activitatea didactica / profesionala (A1)	50	80.833	DA
A2	Activitatea de cercetare (A2)	300	324.289	DA
A3	Recunoasterea impactului activitatii (A3)	50	77.552	DA
Total (A)		400	482.674	DA

Conditii minimale obligatorii pe subcategorii		Necesar	Realizat	Indeplinit
A1.1.1.-A1.1.2	Carti de specialitate	0	4	DA
	Capitole in carti de specialitate	1	2	
A2.1.	Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings	6	19	DA
	Articole in reviste cotate Q1 sau Q2 (fie la momentul publicarii fie la data inscrierii in concurs)	1	1	DA
	Numai una dintre lucrari poate fi echivalata: 1 brevet de inventie / 1 articol in conf. internat. de top in domeniul de abilitare nivel ≥ 2 / 3 articole de nivel 1 in clasificarea Julkaisu Publication)		0	
A2.4.1	Granturi/proiecte castigate prin competitie (Director/ responsabil)	1	2	DA
A3.1.1	Numar de citari in carti, reviste cotate ISI si in volume ale unor manifestari stiintifice ISI (WOS)	10	26	DA
	Factor de impact ISI cumulat pentru publicatii (include si FI pentru brevete, FI = 0.5)	4	12.8	DA

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Activitatea didactica si profesionala (A1)							50 biblioteci?		
A1.1.1. Carti, monografii - internationale						Nr. autori	Punctaj	Numar	pentru DA selectati 1
Nr.	Autori	Titlu capitol/carte, ISBN	Editura	Anul					
1							#DIV/0!		

Ultimii 5 ani?		
pentru DA selectati 1	Punctaj	Numar
	0.000	0
	0.00	

Activitatea didactica si profesionala (A1)							50 biblioteci?		
A1.1.1. Capicole - internationale						Nr. autori	Punctaj	Numar	pentru DA selectati 1
Nr.	Autori	Titlu capitol/carte, ISBN	Editura	Anul					
1							#DIV/0!		

Ultimii 5 ani?		
pentru DA selectati 1	Punctaj	Numar
	0.000	0
	0.00	

Activitatea didactica si profesionala (A1)								
A1.1.2. Carti, monografii - nationale						Nr. autori	Punctaj	Numar
Nr.	Autori	Titlu capitol / carte, ISBN	Editura	Anul				
1	Mircea Risteiu, Alexandru Avram, Pasculescu Dragos, Remus Dobra, Florin Samoila	Designing dedicated electronic systems - Mechatronics embedded systems, ISBN 978-973-741-618-6	UNIVERSITAS	2019	5	10.00		
2	Remus Dobra, Alexandru Avram, Pasculescu Dragos, Mircea Risteiu, Florin Samoila	Variable frequency drive (VFD): AC motor control, ISBN 978-973-741-619-3	UNIVERSITAS	2019	5	10.00		
3	Nicolae Patrascoiu, Remus Dobra, Mircea Risteiu, Alexandru Avram	Analysis and Synthesis of Digital Electronics: Collection of applications, ISBN 978-973-741-970-5	UNIVERSITAS	2024	4	12.50		
4	Manuella Kadar, Alexandru Avram	Vedere artificială în structuri de control. Teorie și aplicații, ISBN 978-606-613-267-1	AETERNITAS	2024	2	25.00		

Ultimii 5 ani?		
pentru DA selectati 1	Punctaj	Numar
	57.500	4
1	10.00	
1	10.00	
1	12.50	
1	25.00	

Activitatea didactica si profesionala (A1)								
A1.1.2. Capicole - nationale						Nr. autori	Punctaj	Numar
Nr.	Autori	Titlu capitol / carte, ISBN	Editura	Anul				
1							#DIV/0!	

Ultimii 5 ani?		
pentru DA selectati 1	Punctaj	Numar
	0.000	0
	0.00	

A1.2.1. Material didactic/lucrari didactice						Nr.	Punctaj	Numar

Ultimii 5 ani?		
pentru DA	Punctaj	Numar

11.2.1. Material didactic / lucrari didactice						autori	23.333	2
Nr.	Autori	Titlu capitol / carte, ISBN	Editura	Anul				
1	Marius PURCAR, Adrian BOJITA, Alexandru AVRAM	Instrumente CAD, ISBN 978-606-737-408-7	U.T.PRESS	2019	3	13.33		
2	Remus Dobra, Mircea Risteiu, Alexandru Avram, Marius Marcu	Signals and Systems Analysis: Collection of experiments for Electromagnetic Compatibility, ISBN 978-973-741-974-3	UNIVERSITAS	2024	4	10.00		

selectati 1	23.333	2
1	13.33	
1	10.00	

10	Bojiță A., Avram A., Purcar M., Munteanu C., Țopa V.,	„Thermo-Mechanical Simulation of the Metal-Semiconductor Structures of Power Integrated Circuits”, 7th International Conference on Modern Power Systems (MPS), Cluj-Napoca (2017), Romania, WOS:000428462600078	0.25	5	6.50
11	Mociran B., Verde A., Oglejan R., Avram A.,	„Study and Optimization of Electromagnetic Field in a Vacuum Interrupter”, 7th International Conference on Modern Power Systems (MPS), Cluj-Napoca (2017), Romania, WOS:000428462600056	0.25	4	8.13
12	Purcar M., Munteanu C., Avram A., Miron F.,	„CAD/CAE modeling of electromagnetic field distribution in HV substations and investigation of the human exposure”, 2016 International Conference on Applied and Theoretical Electricity (ICATE), Craiova (2016), Romania, WOS:000390767500096	0.25	4	8.13
13	Purcar M., Munteanu C., Avram A., Bojita A.,	„A two layer ground computational model for the numerical simulations of the earthing systems”, 2016 International Conference on Applied and Theoretical Electricity (ICATE), Craiova (2016), Romania, WOS:000390767500096	0.25	4	8.13
14	Pop, F ; Munteanu, C ; Pacurar, C ; Racasan, A; Prusu, S ; Avram, A; Chiorean, C	„Pre compliance test for conducted emissions”, 4rd International Conference on Quality and Innovation in Engineering and Management (QIEM), Cluj-Napoca (2016), Romania, WOS:000436122900032	0.25	7	4.64
15	Purcar M., Avram A., Munteanu C.,	„B-spline surface approximation of triangulated data set patches”, 3rd International Conference on Quality and Innovation in Engineering and Management (QIEM), Cluj-Napoca (2014), Romania, WOS:000346410700078	0.25	3	10.83
16	Purcar M., Țopa V., Munteanu C., Avram A., Cherecheș R.,	„Electrochemical Machining Simulations Based on the Level Set Method”, 1st International Conference on Quality and Innovation in Engineering and Management, Cluj-Napoca (2011), Romania, WOS:000312344600104	0.25	5	6.50
17	Muntean, F; Avram, A; Deconinck, J; Purcar, M; Topa, V; Munteanu, C; Grindei, I.; Garvasuc, O	„Optimization of the Current Density Distribution in Electrochemical Reactors”, 8th Conference on Scientific Computing in Electrical Engineering (SCEE), Toulouse (2010), Franța, WOS:000335745600020	0.25	8	4.06
18	Alexandru Avram, Manuella Kadar, Adrian Tulbure	A Study for Energy-Efficient NFC-RFID Tag Antennas Used in Asset Management Applications, 8th European IEEE Conference on Electrical Engineering and Computer Science (ELECS 2024), IEEE Proceedings with AMCS (acceptat spre publicare)	0.25	3	10.83
19	Manuella Kadar, Ina Adamachi, Alexandru Avram	PreProcMed: Automated Medical Image Processing Framework for Deep Learning Applications, 8th European IEEE Conference on Electrical Engineering and Computer Science (ELECS 2024), IEEE Proceedings with AMCS (acceptat spre publicare)	0.25	3	10.83

		0	0.00		0.0
		0	0.00		0.0
		0	0.00		0.0
		0	0.00		0.0
		0	0.00		0.0
		0	0.00		0.0
		0	0.00		0.0
		1	10.83		0.3
		1	10.83		0.3

A2.2. Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI):					Punctaj	Numar
Scopus, IEEE, Science Direct, Elsevier, Springerlink, ACM, DBLP, EURASIP					82.500	16
Nr.	Autori	Titlu lucrare / revista (conferinta)	Baza de date	Nr. autori	Punctaj	

Echiv. pt. Q1,Q2; A2.1

Ultimii 5 ani?		
pentru DA	Punctaj	Numar
selectati 1	38.167	7

15	Purcar M., Munteanu C., Avram A., Țopa V.,	„Modeling of the 3D Electrode Growth in Electroplating”, Lucrările Simpozionului Național de Eelectrotehnică Teoretică (SNET '12), Volume 3, No.1. pp. 44-49. (2012). ISSN 2067-4147	EBSCO	4	5.00
16	Remus, D.; Rîșteiu, M.; Avram, A.; Aldea, M.; Pasculescu, D.; Micu, D. D.; Claudia, C.; Buică, G.	“Directional Relay SCADA-Based Upgrade for the Power Management Interface Improvement in Pumped Stored Energy.” Preprints 2024, 2024021704. https://doi.org/10.20944/preprints202402.1704.v1	PREPRINTS	8	2.50

	0	0.00	
	1	2.50	

A2.3.1. Proprietate intelectuala, brevete de inventie, certificate ORDA - internationale					Punctaj	Numar	FI	Inregist rat?	Echiv. pt. Q1,Q2; A2.1
					0.000	0	0.0		
Nr.	Autori	Denumie brevet /Organism	Anul	Nr.autori	Punctaj				
1					#DIV/0!		0.0		

Ultimii 5 ani?			
pentru DA	Punctaj	Numar	FI
selectati 1	0.000	0	0.0
	0.00		0.0

A2.3.2. Proprietate intelectuala, brevete de inventie, certificate ORDA - nationale					Punctaj	Numar	FI
					0.000	0	0.0
Nr.	Autori	Denumie brevet /Organism	Anul	Nr.autori	Punctaj		
1					#DIV/0!		0.0

Ultimii 5 ani?			
pentru DA	Punctaj	Numar	FI
selectati 1	0.000	0	0.0
	0.00		0.0

A2.4.1.1. Granturi/proiecte castigate prin competitie sau Contracte cu agenti economici in valoare de minim 10 000 dolari SUA : director/responsabil de proiect - internationale ; Nu se considera proiecte/granturi care nu prezinta caracter predominant de cercetare. Trebuie sa fie relevante pentru postul de concurs/domeniul de abilitare. Documente care demonstreaza caracterul de cercetare.					Punctaj	Numar
					0.000	0
Nr.	Denumire proiect	Perioada	Nr. ani	Punctaj		
1				0.00		

Ultimii 5 ani?		
pentru DA	Punctaj	Numar
selectati 1	0.000	0
	0.00	

A2.4.1.2. Granturi/proiecte castigate prin competitie sau Contracte cu agenti economici in valoare de minim 10 000 dolari SUA - director/responsabil de proiect nationale ; Nu se considera proiecte/granturi care nu prezinta caracter predominant de cercetare. Trebuie sa fie relevante pentru postul de concurs/domeniul de abilitare. Documente care demonstreaza caracterul de cercetare					Punctaj	Numar
					20.000	2
Nr.	Denumire proiect	Perioada	Nr. ani	Punctaj		
1	Contribuții la proiectarea optimă a sistemelor de comunicații wireless pe distanță scurtă (NFC/RFID) cu consum redus de energie electrică, UAB - Ag. Economic Nr.870/2024 (in curs de impelmentare)	2024-2025	1	10.00		
2	Dezvoltarea și testarea unei noi tehnologii pentru proiectarea configurațiilor optime a circuitelor imprimate – PCB RUN, Competitie CICDI - Nr. 1989/2017	2017-2018	1	10.00		

Ultimii 5 ani?		
pentru DA	Punctaj	Numar
selectati 1	0.000	0
	0.00	

Ultimii 5 ani?

A2.4.2.1. Granturi/proiecte castigate prin competitie sau Contracte cu agenti economici in valoare de minim 10 000 dolari SUA: membru in echipa - internationale ; Nu se considera proiecte/granturi care nu prezinta caracter predominant de cercetare. Trebuie sa fie relevante pentru postul de concurs/domeniul de abilitare. Documente care demonstreaza caracterul de cercetare				Punctaj	Numar
				0.000	0.00
Nr.	Denumire proiect	Perioada	Nr. ani	Punctaj	
1				0.00	

pentru DA	Punctaj	Numar
selectati 1	0.000	0.00
	0.00	

A2.4.2.2. Granturi/proiecte castigate prin competitie sau Contracte cu agenti economici in valoare de minim 10 000 dolari SUA: membru in echipa - nationale ; Nu se considera proiecte/granturi care nu prezinta caracter predominant de cercetare. Trebuie sa fie relevante pentru postul de concurs/domeniul de abilitare. Documente care demonstreaza caracterul de cercetare				Punctaj	Numar
				30.000	9.00
Nr.	Denumire proiect	Perioada	Nr. ani	Punctaj	
1	Parc fotovoltaic, judetul Alba - Studiu de oportunitate, Nr. 379 din 25.04.2023 (Membru)	2023	1	2.00	
2	Simulator multiscalar-multigrad al proceselor electro-termo-mecanice din circuitele integrate de putere – SET4CIP, Bridge nr. PN-III-P2-2.1-BG-2016-0388 (Membru)	2016-2018	2	4.00	
3	Dezvoltarea unui algoritm matematic de modelare a suprafețelor deformabile a electrozilor în cursul proceselor electrochimice, un nou instrument de proiectare virtuală, CNCS PN-II-IDEI cod 2538 (Membru)	2008-2011	3	6.00	
4	Acțiuni pentru dezvoltarea capacității pentru cercetare în Universitatea „1 Decembrie 1918” din Alba Iulia, Contract nr. CNFIS-FDI-2022-0268 (Expert)	2022	1	2.00	
5	Dezvoltare, afirmare, reușită la începutul studenției (DARIS), Contract ROSE AG 91/SGU/NC (Expert)	2022	1	2.00	
6	Stagii integrate de practică și consiliere profesională pentru absolvenți competitivi pe piața muncii (SIPAC), Contract POCU/626/6/13/131603 (Expert)	2020-2022	2	4.00	
7	Program integrativ de crestere a echității sociale, acces la studii pe piața muncii pentru liceeni, studenți și absolvenți prin dezvoltarea parteneriatelor și a serviciilor de consiliere in cariera, Contract nr. CNFSI-FDI-2019-025 (Expert)	2019	1	2.00	
8	Educație și consiliere în carieră pentru scăderea ratei de abandon la Facultatea de Inginerie Electrica din Cluj-Napoca – Contract ROSE AG 39/SGU/NC/1 (Expert)	2017	1	2.00	
9	Creșterea calității studiilor doctorale în științe inginerești pentru sprijinirea dezvoltării societății bazate pe cunoaștere – Q-DOC, Contract nr. POSDRU/107/1.5/S/78534 (Membru)	2010-2013	3	6.00	

Ultimii 5 ani?		
pentru DA	Punctaj	Numar
selectati 1	10.000	4.00
1	2.00	
0	0.00	
0	0.00	
1	2.00	
1	2.00	
1	4.00	
0	0.00	
0	0.00	
0	0.00	

Candidat: AVRAM ALEXANDRU

Data: 19.12.2024

Comisia: Electronică, telecomunicații și nanotehnologie

Recunoasterea si impactul activitatii (A3)					Q1/Q2 daca e cazul	Ultimii 5 ani?		
A3.1.1. Citari in carti, reviste si volume ale unor manifestari stiintifice (carti, ISI); se exclud autocitarile				Punctaj		Numar	pentru DA selectati 1	Punctaj
Nr.	Articol citat	Articol care citeaza	Num aut. art. citat	Punctaj			18.286	10
1	„CAD/CAE modeling of electromagnetic field distribution in HV substations and investigation of the human exposure”, 2016 International Conference on Applied and Theoretical Electricity (ICATE), Craiova (2016), Romania, WOS:000390767500096	Voicu, V; Dina, LA; Nicolae, PM; Aipu, RA; Patru, I; Nicoleanu, PA, "Modeling the Electromagnetic Field Distribution in a Shielded Enclosure Lined with Radio-Frequency Absorbers", INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE), 2018 WOS:000487278600022	4	2.00			0.00	
2	„CAD/CAE modeling of electromagnetic field distribution in HV substations and investigation of the human exposure”, 2016 International Conference on Applied and Theoretical Electricity (ICATE), Craiova (2016), Romania, WOS:000390767500096	Munteanu, C; Purcar, M; Rizzo, R, "Study of the Electromagnetic Field Distribution inside a HV/MV Substation", 2017 7TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS), WOS:000428462600084	3	2.67			0.00	
3	„Designing a Smart Gateway for Data Fusion Implementation in 2 a Distributed Electronic System Used in Automotive”, Energies 2021, 14(11), 3300; https://doi.org/10.3390/en14113300	Application of Deep Learning Techniques for the Optimization of Industrial Processes Through the Fusion of Sensory Data, INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, Volume17,Issue1, 2024 WOS:001271707400002	4	2.00		1	2.00	
4	„Designing a Smart Gateway for Data Fusion Implementation in 2 a Distributed Electronic System Used in Automotive”, Energies 2021, 14(11), 3300; https://doi.org/10.3390/en14113300	Krishnamoorthy, R; Chokkalingam, B; Munda, JL, "Design of Fault-Tolerant Automotive Gateway Architecture Using MC9S12XDP512 Microcontroller Device", ENERGIES Volume16 Issue16, 2023 WOS:001055825200001	7	1.14		1	1.14	
5	„Numerical analysis of electro-thermal behavior and optimization of the cooling system in electronic power devices using CAD/CAE tools”, 7th International Conference on Modern Power Systems (MPS), Cluj-Napoca (2017), Romania, WOS:000428462600063	Chirila, AI; Deaconu, ID; Navrapescu, V; Hariton, NM; Mihai, CI; Beciu, G, "An Approach on Power Converters Cooling System Optimization", INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE), 2021 WOS:000709089900057	4	2.00		1	2.00	
6	„Study and Optimization of Electromagnetic Field in a Vacuum Interrupter”, 7th International Conference on Modern Power Systems (MPS), Cluj-Napoca (2017), Romania, WOS:000428462600056	Budzisz, J, "The model of a vacuum circuit breaker for switching on capacitor bank", PRZEGLAD ELEKTROTECHNICZNY, Volume95 Issue2 Page140-145, 2019, WOS:000456980700031	4	2.00		1	2.00	

7	„Pre compliance test for conducted emissions”, 4rd International Conference on Quality and Innovation in Engineering and Management (QIEM), Cluj-Napoca (2016), Romania, WOS:000436122900032	Munteanu, CVA; Chiritoiu, GN; Petrescu, AJ; Petrescu, SM, "Profiling Optimal Conditions for Capturing EDEM Proteins Complexes in Melanoma Using Mass Spectrometry", ADVANCEMENTS OF MASS SPECTROMETRY IN BIOMEDICAL RESEARCH, 2ND EDITION, Volume1140 Page155-167, 2019 WOS:000514082500010	7	1.14
8	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	Raluca Oglejan, Bogdan Mociran, "Numerical modeling of moving inclusions in electric models using eXtended Finite Element Method", 2017 International Conference on Modern Power Systems (MPS), pp.1-4, 2017. WOS:000428462600071	4	2.00
9	Numerical Modeling of the Electrode Shape Change in Electrochemical Machining, in Acta Electrotehnica, vol. 52, no. 5, pp. 387-394-2011.	Raluca Oglejan, Bogdan Mociran, "Numerical modeling of moving inclusions in electric models using eXtended Finite Element Method", 2017 International Conference on Modern Power Systems (MPS), pp.1-4, 2017. WOS:000428462600071	5	1.60
10	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	Anders Bernland, Eddie Wadbro, Martin Berggren, "Acoustic shape optimization using cut finite elements", International Journal for Numerical Methods in Engineering, Volume113, Issue3, 2018 WOS:000418346200004	4	2.00
11	State of the Art in the Optimal Design of Electromagnetic Devices, in Acta Electrotehnica, vol. 52, no. 4, 2011.	Yuliya Pleshivtseva, Edgar Rapoport, Bernard Nacke, Alexander Nikanorov, Paolo Di Barba, Michele Forzan, Sergio Lupi, Elisabetta Sieni, "Design concepts of induction mass heating technology based on multiple-criteria optimization", COMPEL - The international journal for computation and mathematics in electrical and electronic engineering, 2017 WOS:000399047400001	5	1.60
12	State of the Art in the Optimal Design of Electromagnetic Devices, in Acta Electrotehnica, vol. 52, no. 4, 2011.	Albert Mas, Ignacio Martín, Gustavo Patow, "Heuristic driven inverse reflector design", Computers & Graphics Volume 77, Pages 1-15, 2018 WOS:000418346200004	5	1.60
13	State of the Art in the Optimal Design of Electromagnetic Devices, in Acta Electrotehnica, vol. 52, no. 4, 2011.	Boucekara, HREH; Nahas, M, "Optimization of Magnetic Actuators Using Competition Over Resources Algorithm", Progress in Electromagnetics Research Symposium, 2017 WOS:000428518300100	5	1.60
14	„An overview of coupling XFEM and LSM for modeling moving interfaces for the optimization of the electric field problems”, Acta Electrotehnica, Volume 56, Issue 3. (2015)	Xu, WJ; Wang, GL; Duan, NN; Wang, SH; Guo, YG; Zhu, JG, "Extended Finite-Element Method for Weak Discontinuities in Electric Fields", IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, Volume26, Issue7, 2016 WOS:000384246100001	2	4.00
15	„An overview of coupling XFEM and LSM for modeling moving interfaces for the optimization of the electric field problems”, Acta Electrotehnica, Volume 56, Issue 3. (2015)	Nana Duan, Shaocong Lu, Xinyu Ma, Weijie Xu, Fuquan Jin and Shuhong Wang, "Research on Extended Finite Element Method for Axisymmetric Electrostatic Field Based on Liquid Nitrogen with Bubbles", Appl. Sci. 2021, 11(11), 5214; WOS:000659580000001	2	4.00
16	Optimization of the current density distribution in electrochemical cells based on the level set method and genetic algorithm, EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol. 56, no. 1, 2011.	K.T. Laitinen, J.M. Miettinen, M. Vauhkonen, R. Lappalainen, "Development of novel electroplating tank layout by computer simulations and verification tests", Transactions Of The Institute Of Metal Finishing, vol. 92, pp. 238-244, 2014 WOS:000346153700003	6	1.33

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17	Optimization of the current density distribution in electrochemical cells based on the level set method and genetic algorithm, EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol. 56, no. 1, 2011.	Chereches, R; Di Barba, P; Topa, V; Purcar, M; Wiak, S, "Optimal shape design of electrostatic microactuators: A multiobjective formulation", INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, 2013 WOS:000326460500007	6	1.33
18	Optimisation of the layer thickness distribution in electrochemical processes using the level set method, IET SCIENCE MEASUREMENT & TECHNOLOGY, vol. 6, no. 5, pp. 376-385, 2012.	M. Purcar, C. Munteanu, V. Topa, "3D Electrode Shape Change Simulation In Electroplating", REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE Volume: 58 Issue: 3 Pages: 252-262 Published: JUL-SEP 2013 WOS:000324447900003	6	1.33
19	Optimisation of the layer thickness distribution in electrochemical processes using the level set method, IET SCIENCE MEASUREMENT & TECHNOLOGY, vol. 6, no. 5, pp. 376-385, 2012.	C. Weng, MY Zhou, BY Jiang, H. Lv, "Improvement on replication quality of electroformed nickel mold inserts with micro/nano-structures", INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, Vol. 75 pp. 92-99, 2016 WOS:000378458100012	6	1.33
20	Optimisation of the layer thickness distribution in electrochemical processes using the level set method, IET SCIENCE MEASUREMENT & TECHNOLOGY, vol. 6, no. 5, pp. 376-385, 2012.	Solovjev, DS; Solovjeva, IA; Litovka, YV; Korobova, IL, "About one counterexample of applying method of splitting in modeling of plating processes", INTERNATIONAL CONFERENCE INFORMATION TECHNOLOGIES IN BUSINESS AND INDUSTRY 2018, PTS 1-4, Journal of Physics Conference Series, 2018 WOS:000446952000157	6	1.33
21	Optimisation of the layer thickness distribution in electrochemical processes using the level set method, IET SCIENCE MEASUREMENT & TECHNOLOGY, vol. 6, no. 5, pp. 376-385, 2012.	Andreou, E; Roy, S, "Modelling the electroforming process: significance and challenges", TRANSACTIONS OF THE INSTITUTE OF METAL FINISHING, 2021 WOS:000684410700001	6	1.33
22	Optimisation of the layer thickness distribution in electrochemical processes using the level set method, IET SCIENCE MEASUREMENT & TECHNOLOGY, vol. 6, no. 5, pp. 376-385, 2012.	Rai, PK; Gupta, A, "Review-Electroforming Process for Microsystems Fabrication", JOURNAL OF THE ELECTROCHEMICAL SOCIETY, 2023 WOS:001132427200001	6	1.33
23	Optimisation of the layer thickness distribution in electrochemical processes using the level set method, IET SCIENCE MEASUREMENT & TECHNOLOGY, vol. 6, no. 5, pp. 376-385, 2012.	Ahmadkhaniha, D; Sieber, M and Zanella, C, "Controlling coating thickness distribution for a complex geometry with the help of simulation", INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY 134 (7-8) , pp.3703-3717, 2024 WOS:001308090300005	6	1.33
24	„Simulation of the Electrode Shape Change in Electrochemical Machining Based on the Level Set Method”, The European Physical Journal Applied Physics, Vol. 58, Issue 01, Article No. 11301, (2012), DOI: 10.1051/epjap/2012110461	Chereches, R; Di Barba, P; Topa, V; Purcar, M; Wiak, S, "Optimal shape design of electrostatic microactuators: A multiobjective formulation", INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, 2013 WOS:000326460500007	6	1.33

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25	„Numerical analysis of electro-thermal behavior and optimization of the cooling system in electronic power devices using CAD/CAE tools”, 7th International Conference on Modern Power Systems (MPS), Cluj-Napoca (2017), Romania, WOS:000428462600063	Petrascu, C ; Tulbure, A; Topa, V, "Automated 3D Scanner for Electromagnetic Radiation Assessment near the WPT Active Part", PROCEEDINGS OF 2019 8TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS), 2019 WOS:000612401900004	4	2.00
26	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	A. Racasan, C. Munteanu, C. Pacurar, V. Topa, C. Constantinescu, F. Pop, S. Andreica, M. Cislaru, "Analysis, identification and minimization the parasitic effects of the multilayer spiral inductors", Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering, EPE 2016 WOS:000390706300079	4	2.00

	1	2.00	
		0.00	

A3.1.2. Citari in reviste si volume ale unor manifestari stiintifice indexate in alte baze de date internationale (BDI): Scopus, IEEE, Science Direct, Elsevier, Springerlink, ACM, DBLP, EURASIP; se exclud autocitarile

				Punctaj	Numar
				14.200	15
Nr.	Articol citat	Articol care citeaza /BDI	Num aut. art.citat	Punctaj	
1	State of the Art in the Optimal Design of Electromagnetic Devices, in Acta Electrotehnica, vol. 52, no. 4, 2011.	Y. Pleshivtseva, P. Di Barba, E. Rapoport, B. Nacke, A. Nikanorov, S. Lupi, E. Sieni, M. Forzan, "Multi-objective optimisation of induction heaters design based on numerical coupled field analysis", International Journal of Microstructure and Materials Properties, vol. 9, no. 6, pp. 532-551, 2015	5	0.80	
2	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	C. Păcurar, V. Topa, A. Răcășan, C. Munteanu, C. Constantinescu, M. Vid, "Square Planar Spiral Inductor High Frequency Field and Parameters Analysis.", Acta Electrotehnica vol. 56, nr. 5, 2015	4	1.00	
3	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	C. Constantinescu, C. Munteanu, A. Răcășan, C. Păcurar, D. Fazacas, "Electromagnetic Modeling and Frequency Response Determination for Planar Integrated LC Structures.", Acta Electrotehnica vol. 56, nr. 5, 2015	4	1.00	
4	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	C. Păcurar, V. Topa, C. Munteanu, A. Răcășan, C. Hebedean, R. Oglejan, G. Vlad, "Solenoid Actuator Parametric Analysis and Numerical Modeling.", Acta Electrotehnica vol. 56, nr. 5, 2015	4	1.00	
5	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	A. Răcășan, C. Păcurar, C. Munteanu, V. Topa, C. Constantinescu, L. Szabo, M. dodea, " Electromagnetic Field Numerical Modeling using BEM2D.", Acta Electrotehnica vol. 56, nr. 5, 2015	4	1.00	

Ultimii 5 ani?		
pentru DA selectati 1	Punctaj 5.600	Numar 6
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6	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	A. Răcășan, C. Păcurar, V. Țopa, C. Constantinescu, S. Andreica, "TECHNIQUES TO REDUCE THE PARASITIC CAPACITANCE OF THE MULTILAYER SPIRAL INDUCTORS", BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Volumul 62 (66), Numărul 4, 2016	4	1.00
7	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	C. Hebedean, C. Munteanu, A. Racasan, C. Pacurar, D. Augustin, "The influence of parameters on the parasitic capacitance values in a planar transformer.", Advanced Topics in Electrical Engineering (ATEE), IEEE, pp. 838-843, 2015	4	1.00
8	Numerical Optimization of an Electrostatic Device Based on the 3D XFEM and Genetic Algorithm, in 2014 49TH INTERNATIONAL UNIVERSITIES POWER ENGINEERING CONFERENCE (UPEC), 2014.	A. Racasan, C. Munteanu, V. Topa, C. Pacurar, C. Hebedean, C. Marcu, "Home appliances conducted electromagnetic emissions analysis and mitigation methods.", Advanced Topics in Electrical Engineering (ATEE), IEEE, pp.356-361, 2015	4	1.00
9	„Numerical analysis of electro-thermal behavior and optimization of the cooling system in electronic power devices using CAD/CAE tools”, 7th International Conference on Modern Power Systems (MPS), Cluj-Napoca (2017), Romania, WOS:000428462600063	Fimmers, C. , Wein, S. , Storms, S., "An Industry 4.0 Engineering Workflow Approach: From Product Catalogs to Product Instances", IECON Proceedings (Industrial Electronics Conference), 2019	4	1.00
10	„Study and Optimization of Electromagnetic Field in a Vacuum Interrupter”, 7th International Conference on Modern Power Systems (MPS), Cluj-Napoca (2017), Romania, WOS:000428462600056	Lantz, G. , Studniarek, M. , Delachaux, T., "SYMMETRY BREAKING DUE TO CAPACITIVE GROUND COUPLING IN A VACUUM INTERRUPTER", IET Conference Proceedings, 2023	4	1.00
11	„CAD/CAE modeling of electromagnetic field distribution in HV substations and investigation of the human exposure”, 2016 International Conference on Applied and Theoretical Electricity (ICATE), Craiova (2016), Romania, WOS:000390767500096	Stulov, A. , Tikhonov, A. , Karzhevin, A. "Computer Aided Engineering System of Amorphous Transformers based on Digital Twin Technology", Proceedings - 2023 International Russian Automation Conference, RusAutoCon 2023	4	1.00
12	„CAD/CAE modeling of electromagnetic field distribution in HV substations and investigation of the human exposure”, 2016 International Conference on Applied and Theoretical Electricity (ICATE), Craiova (2016), Romania, WOS:000390767500096	Konstantin Suslov, Andrey Kryukov , Ekaterina Voronina , Azat Akhmetshin, "Consideration of the influence of supports in modeling the electromagnetic fields of 25 kV traction networks under emergency conditions", Global Energy Interconnection Volume 7, Issue 4, August 2024, Pages 528-540	4	1.00
13	State of the Art in the Optimal Design of Electromagnetic Devices, in Acta Electrotehnica, vol. 52, no. 4, 2011.	Yu Pleshivtseva, E. Rapoport, B. Nacke, A. Nikanorov, P. Di Barba, E. Sieni, M. Forzan and S. Lupi, "Three-criteria numerical optimisation as a base for designing induction mass heating", International Journal of Microstructure and Materials Properties Vol. 13. No. 1-2. 2018	5	0.80

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14	„Thermo-Mechanical Simulation of the Metal-Semiconductor Structures of Power Integrated Circuits”, 7th International Conference on Modern Power Systems (MPS), Cluj-Napoca (2017), Romania, WOS:000428462600078	Héctor Enrique Jaramillo Suárez; Brian Quintero Jiménez Cuero; Iván Orlando Ortega Cabrera; Carlos Enrique Ríos Chaparro; Gustavo Adolfo Zambrano Romero, "Evaluación computacional del compartimiento de carga de una aeronave liviana, usando software libre", Ciencia y poder aéreo, ISSN-e 2389-9468, ISSN 1909-7050, Vol. 17, Nº. 2, 2022, págs. 36-51	5	0.80
15	„Simulation of the Electrode Shape Change in Electrochemical Machining Based on the Level Set Method”, The European Physical Journal Applied Physics, Vol. 58, Issue 01, Article No. 11301, (2012), DOI: 10.1051/epjap/2012110461	Inna Solovjeva, Denis Solovjev, Viktoriya Konkina and Yuri Litovka, "Optimization of the anode shape for the electroplating coating on long thin-walled detail taking into account the ohmic potential drop", MATEC Web Conf., Volume 329, 2020	5	0.80

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1	0.80	

A3.2. Membru in colectivele de redactie sau comitete stiintifice al revistelor ISI, chair sau co-chair sau membru in comitele de organizare manifestari stiintifice ISI (punctaj unic pentru fiecare activitate; nu se considera calitatea de recenzor al unor articole individuale)			Punctaj	Numar
			10.000	1
Nr.	Descriere	Perioada		
1	International Conference on Modern Power Systems - MPS, Cluj-Napoca, Romania	2019	10.00	

Ultimii 5 ani?		
pentru DA	Punctaj	Numar
selectati 1	0.000	0
	0.00	

A3.3. Membru in colectivele de redactie sau comitete stiintifice al revistelor BDI, chair sau co-chair sau membru in comitele de organizare manifestari stiintifice BDI: Scopus, IEEE, Science Direct, Elsevier, Springerlink, ACM, DBLP, EURASIP (punctaj unic pentru fiecare activitate; nu se considera calitatea de recenzor al unor articole individuale)			Punctaj	Numar
			6.000	1
Nr.	Descriere	Perioada		
1	International Conference on Advancements of Medicine and Health Care through Technology – MediTech, Cluj-Napoca, Romania	2016	6.00	

Ultimii 5 ani?		
pentru DA	Punctaj	Numar
selectati 1	0.000	0
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A3.4. Premii in domeniu: Academia Romana, ASTR, AOSR, premii internationale de prestigiu			Punctaj	Numar
			0.000	0
Nr.	Descriere	An		
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Ultimii 5 ani?		
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Indicele Hirsch (h - index)
necesar determinarii indicatorului C2.2 pentru finantarea suplimentara

Data: 19.12.2024

h - index: 3.7

	WebOfKnowledge	Scopus	Google Scholar
h-index BDI	3	4	5
pondere h-index BDI	0.5	0.3	0.2

Fisa de verificare a standardelor minimale necesare si obligatorii pentru conferirea titlurilor didactice din invatamantul superior si a gradelor profesionale de cercetare stabilite prin OM 6129 / 2016

Candidat: **AVRAM ALEXANDRU**

Data: **19.12.2024**

Comisia: **Electronică, telecomunicații și nanotehnologie**

Punctaj total: **220.386**

Postul vizat: **Conferentiar**

Scor=punctaj total/punctaj minim CNADCU: **0.551**

Ultimii 5 ani

Nr.	Domeniul activitatilor			Subcategoriile		Indicatori (kpi)	Numar	Punctaj	FI
0	1	2	3	4		5	6	7	8
1	Activitatea didactica si profesionala (A1)	Carti de autor in edituri cu ISBN	Carti, monografii	A1.1.1.	internationale	50 (100)/nr.aurori	0	0.00	
		Capitole de specialitate in edituri cu ISBN	Capitole			12.5 (25)/nr.aurori	0	0.00	
		Carti de autor in edituri cu ISBN	Carti, monografii	A1.1.2.	nationale	50 /nr.aurori	4	57.50	
		Capitole de specialitate in edituri cu ISBN	Capitole			12.5/nr.aurori	0	0.00	
		Material didactic/lucrari didactice publicate in edituri cu ISBN	Manuale didactice	A1.2.1		40/nr. autori	2	23.33	
Total punctaj (A1)								80.833	

2	Activitatea de cercetare (A2)	Articole in reviste cotate ISI si lucrari in volumele unor manifestari stiintifice indexate ISI proceedings		A2.1		(25+30 * fact.imp) /nr.aurori	4	67.50	5.750
		Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale recunoscute (BDI)		A2.2		20/nr.aurori	7	38.17	
		Proprietate intelectuala, brevete de inventie, certificate ORDA		A2.3.1	Internationale	35/nr.aurori	0	0.00	0
				A2.3.2	nationale	25/nr.aurori	0	0.00	0
		Granturi/proiecte castigate prin competitie sau contracte cu agenti economici in valoare de minim 10000 USD	Director / responsabil	A2.4.1.1	Internationale	20*ani desf.	0	0.00	
				A2.4.1.2	nationale	10*ani desf.	0	0.00	
				A2.4.2.1	Internationale	4*ani desf.	0	0.00	
	Membru in echipa	A2.4.2.2	nationale	2*ani desf.	4	10.00			
Total punctaj (A2)								115.667	5.750

3	Recunoasterea si impactul activitatii (A3)	Citari in carti, reviste si volume ale unor manifestari stiintifice		A3.1.1	carti, ISI	8/nr.aut art.citat	10	18.286	
				A3.1.2	BDI	4/nr.aut art.citat	6	5.600	
		Membru in colectivele de redactie sau comitetele stiintifice ale revistelor indexate ISI, chair, co-chair sau membru in comitetele de organizare ale manifestarilor internationale indexate ISI	Punctaj unic pentru fiecare activitate	A3.2.		10	0	0	
		Membru in colectivele de redactie sau comitetele stiintifice ale revistelor indexate BDI, chair sau co-chair sau membru in comitetele de organizare ale manifestarilor stiintifice indexate BDI	Punctaj unic pentru fiecare activitate	A3.3		6	0	0	
		Premii in domeniu conferite de Academia Romana, ASTR, AOSR sau premii internationale de prestigiu		A3.4.		15	0	0	
Total punctaj (A3)								23.886	

Candidat: AVRAM ALEXANDRU

Data: 19.12.2024

Comisia: Electronică, telecomunicații și nanotehnologie

Ultimii 5 ani

Postul vizat: Conferentiar

Conditii minimele (Ai)				
Nr.	Domeniu de activitate (A)	Necesar	Realizat	Indeplinit
A1	Activitatea didactica / profesionala (A1)	12.5	80.833	DA
A2	Activitatea de cercetare (A2)	75	115.667	
A3	Recunoasterea impactului activitatii (A3)	12.5	23.886	
Total (A)		100	220.386	