

STANDARDE MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

1. Structura activității candidatului								
Nr. crt.	Domeniul activităților	Categorii și restricții		Subcategorii		Indicatori (kpi)	Nr. Realizat	Punctaj
0	1	2		3		4	5	6
1	Activitatea didactică și profesională (A1)	Cărți de autor sau capitole [1] de specialitate la edituri cu ISBN	Cărți/ Monografii / Capitole ca autor	A1.1.1	internațional e	50 / nr. de autori sau 100 / nr. de autori cu conditia [2]	0	
				A1.1.2	naționale	50 / nr. de autori	4	141.667
		Material didactic/Lucrări didactice publicate la edituri cu ISBN	Manuale didactice	A1.2.1		40 / nr. de autori	0	
							TOTAL A1	141.667
2	Activitatea de cercetare (A2)	Articole în reviste cotate ISI, și lucrări în volumele unor manifestări științifice indexate ISI		A2.1		(25+ 30*factor impact [3])/nr. de autori	43	832.482
				A2.2		20/nr. de autori	24	136.333
		Proprietate intelectuală, brevete de invenție, certificate ORDA		A2.3.1	internațional e	35/ nr. de autori		
				A2.3.2	naționale	25/ nr. de autori		
		Granturi/proiecte de cercetare câștigate pin competiție [6] sau Contracte cu agenți economici, în valoare de minimum 10.000 dolari USA echivalent încasați [6]	Director/re sponsabil partener	A2.4.1.1	internațional e	20*ani de desfășurare		
				A2.4.1.2	naționale	10*ani de desfășurare	4 ani de desfasurare	40
			Membru în echipă	A2.4.2.1	internațional e	4*ani de desfășurare	6 ani de desfasurare	20
				A2.4.2.2	naționale	2*ani de desfășurare	6 ani de desfasurare	24
							TOTAL A2	1,052.815
3	Recunoașterea și impactul activității	Citări [7] în cărți, reviste și volume ale unor manifestări științifice		A3.1.1	Cărți, ISI [8]	8/nr. aut art. citat	109	344.667
				A3.1.2	BDI [4]	4/nr. aut art. citat	13	11.000
		Membru în colectivele de redacție sau comitetele științifice ale revistelor indexate ISI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internaționale indexate ISI [9]	Punctaj unic pentru fiecare activitate	A3.2		10	15	220

		Membru în comitetele de redacție sau comiteele științifice ale revistelor indexate BDI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internaționale indexate BDI [4]	Punctaj unic pentru fiecare activitate	A3.3		6	6	18
		Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaționale de prestigiu		A3.4		15	1	15
							TOTAL A3	608.667
						TOTAL	A1+A2+A3	1,803.148

Avizat
IPSUD UPT-Rector,
Conf.dr.ing. Florin DRAGAN

Avizat
Director scoala doctorala,
Prof.dr.ing. Dorin LELEA

Candidat,

Condiții minime pentru profesor/abilitare

3. Condiții minime (A_i)			
Nr. crt.	Domeniul de activitate	Profesor / abilitare	Punctaj realizat
A_1	Activitatea didactică / profesională (A_1)	100	141.6666667
A_2	Activitatea de cercetare (A_2)	600	1052.815
A_3	Recunoașterea impactului activității (A_3)	150	608.667
TOTAL (A)		850	1803.148

Condiții minime obligatorii pe subcategorii		Profesor / abilitare	Nr. realizat
A1.1.1- A1.1.2	Cărți și capitole în cărți de specialitate	1 carte	4
A1.2.1- A1.2.2	Material didactic / Lucrări didactice		1
A2.1	Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings	15 din care minimum 3 in reviste cotate ISI Q1 sau Q2 [11]	42 (din care 2 in Q1/Q2 si 1 echivalare conferinte de top)
A2.4.1	Granturi/proiecte câștigate prin competiție (Director/responsabil)	2	2
A3.1.1- A3.1.2	Număr de citări în cărți, reviste cotate ISI și volume ale unor manifestări științifice ISI (WOS) [12]	25	109
	Factor de impact ISI cumulat pentru publicații [13]	10	31.164

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Avizat,
Director scoala doctorala,
Prof.dr.ing. Dorin LELEA

Candidat,

A 1 Activitatea didactică și profesională

A 1.1 Cărți și capitole de cărți de specialitate în edituri recunoscute

A 1.1.2 Naționale

Nr. Crt	Autori	Titlul cărții	Editura	Poz. lista CNCIS	ISBN	Anul	Număr total de pagini	Număr de pagini contribuție proprie	Punctaj
1	Prodan Lucian	Self-Repairing Memory Arrays Inspired by Biological Processes	Editura Politehnica Timișoara	138	978-973-625-820-6	2009	211	211	50
2	Udrescu Mihai, Prodan Lucian	Emerging Computing Systems: Quantum Computing From a Computer Engineering Perspective	Editura Politehnica Timișoara	138	978-606-554-684-4	2013	128	12	25
3	Oprițoiu Flavius, Prodan Lucian, Udrescu Mihai	Aritmetica în sistemele de calcul: probleme de design și implementare	Editura Politehnica Timișoara	138	978-606-554-566-3	2013	136	56	16.6667
4	Prodan Lucian	Controlul microprogramat în sistemele de calcul	Editura Politehnica Timișoara	103	978-606-35-0511-9	2023	103	103	50
								TOTAL	142

	A	B	C	D	E	F	G	H	I	J	K	L	M
1		A2.	ISI Reviste										
2		Nr	Autori	Titlul lucrării	Revista	Anul	Vol (Nr.)	Pag.	Nr. de autori	Factor de impact	Punctaj		
3		Cr											
4		1	Prodan Lucian, Udrescu Mihai, Boncalo Oana, Vlăduțiu Mircea	Design for Dependability in Emerging Technologies	ACM Journal of Emerging Technologies in Computing Systems, Volume 3, Issue 2, Article 6, July 2007, ISSN 1550-4832 Jurnal ISI Q2	2007	3(2)	6	4	2.400	24.250	https://www.webofscience.com/wos/woscc/summary/4940a30d-c4d6-410b-b5b3-d265936d4681-66d3b343/relevance/1	
5		2	Prodan Lucian	Bioinspiration will always cost more than nature pays	Communications of the ACM jurnal ISI Q1	2007	50(4)	9	1	14.065	446.950	https://www.webofscience.com/wos/woscc/full-record/WOS:000245434800007	
6		3	Udrescu Mihai, Prodan Lucian, Vlăduțiu Mircea	Simulated Fault Injection Methodology for Gate-Level Quantum Circuit Reliability Assessment	Simulation Modelling Practice and Theory, Volume 23, April 2012, Pages 60-70, ISSN 1569-190X Jurnal ISI Q1	2012	23(1)	60-70	3	4.199	50.323	https://www.webofscience.com/wos/woscc/summary/86970948-7444-4d45-a5ba-648ba73d2d3d-651246d1/relevance/1	
7		4	Iovanovici Alexandru, Avramoni Dacian, Prodan Lucian	A dataset of urban traffic flow for 13 Romanian cities amid lockdown and after ease of COVID19 related restrictions	Elsevier Data in Brief, ISSN 2352-3409, vol. 32, DOI: 10.1016/j.dib.2020.106318 Jurnal ISI Q3	2020	32		3	0.000	8.333	https://www.webofscience.com/wos/woscc/full-record/WOS:000583229100278	
8									Total	20.664	529.857		
9													
10		A 2. 1	ISI Proceedings Strainatate										
11		Nr	Autori	Titlul lucrării	Conferința, Simpozionul, Denumirea volumului, Localitatea, etc.	Anul	Ziua, luna	ISBN și / sau ISSN	Pag.	Nr. autori	Factor de impact	Punctaj	
12		Cr											
13		5	Prodan Lucian, Tempesti Gianluca, Mange Daniel	Biology Meets Electronics: The Path to a Bio-Inspired FPGA	Proc. 3rd International Conference on Evolvable Systems (ICES2000), Edinburgh, Scotland, LNCS 1801	2000	17-19, 04	ISBN 3-540-67338-6	187-197	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000171691900019

	A	B	C	D	E	F	G	H	I	J	K	L	M
14		6	Prodan Lucian, Udrescu Mihai, Vlăduțiu	Self-Repairing Embryonic Memory Arrays	Proceedings IEEE NASA/DoD Conference on Evolvable Hardware (EH'04), Seattle WA, USA	2004	24-26 Jun	ISBN 0- 7695- 2145-2	130- 137	3	0.25	10.833	https://www.webofscience.com/wos/woscc/full-record/WOS:000222965600019
15		7	Udrescu Mihai, Prodan Lucian, Vlăduțiu	Simulated Fault Injection in Quantum Circuits with the Bubble Bit Technique	Proceedings ICANNGA, Coimbra, Portugal, Springer “Adaptive and Natural Computing Algorithms”	2005	21-23 Mar	ISBN 3- 211- 24934- 6	276- 279	3	0.25	10.833	https://www.webofscience.com/wos/woscc/full-record/WOS:000229368400066
16		8	Prodan Lucian, Udrescu Mihai,	Multiple-Level Concatenated Coding in Embryonics: A Dependability Analysis	Proceedings GECCO (ACM / SIGEVO), Washigton DC, USA	2005	25-29 Jun	ISBN 1- 59593- 010-8	941- 948	3	0.75	15.833	conferinta de top http://www.cnatdcu-c15.org/
17													https://www.webofscience.com/wos/woscc/full-record/WOS:000229368400066
18		9	Prodan Lucian, Udrescu Mihai, Vlăduțiu Mircea	Survivability of Embryonic Memories: Analysis and Design Principles	Proceedings IEEE NASA/DoD Conference on Evolvable Hardware (EH'05), Washington DC, USA, 2005	2005	29-30 Jun	ISBN 0- 7695- 2399-4	280- 289	3	0.25	10.833	https://www.webofscience.com/wos/woscc/full-record/WOS:000230938600038
19		10	Udrescu Mihai, Prodan Lucian, Vlăduțiu	The Bubble Bit Technique as Improvement of HDL-Based Quantum Circuits Simulation	Proceedings IEEE 38th Annual Simulation Symposium, San Diego CA, USA	2005	2-8 Apr	ISBN 0- 7695- 2322-6	217- 224	3	0.25	10.833	https://www.webofscience.com/wos/woscc/full-record/WOS:000229038500024
20		11	Cristian, Udrescu Mihai, Prodan Lucian, Vlăduțiu	A Genetic Algorithm Framework Applied to Quantum Circuit Synthesis	International Workshop on Nature Inspired Cooperative Strategies for Optimization (NICSO'07), Acireale, Sicily (Italy)	2007	8-10 Nov	ISBN: 978-3- 540- 78986- 4	419- 429	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000262048100038
21		12	Boncalo Oana, Udrescu Mihai, Prodan Lucian, Vlăduțiu Mircea	Saboteur Based Fault Injection for Quantum Circuits Fault Tolerance Assessment	Proceedings 10th EUROMICRO Conference on Digital System Design, Architectures, Methods and Tools (DSD 2007), Lübeck, Germany	2007	29-31 Aug	ISBN 0- 7695- 2978-X	634- 640	5	0.25	6.500	https://www.webofscience.com/wos/woscc/full-record/WOS:000251463100092
22		13	Amarical Alexandru, Vlăduțiu Mircea, Prodan Lucian	Exploiting Parallelism in Double Path Adders' Structure for Increased Throughput of Floating Point Addition	Proceedings 10th EUROMICRO Conference on Digital System Design, Architectures, Methods and Tools (DSD 2007), Lübeck, Germany	2007	29-31 Aug	ISBN 0- 7695- 2978-X	132- 137	5	0.25	6.500	https://www.webofscience.com/wos/woscc/full-record/WOS:000251463100018
23		14	Boncalo Oana, Udrescu Mihai, Prodan Lucian,	Assessing Quantum Circuits Reliability with Mutant-Based Simulated Fault Injection	Proceedings 18th European Conference on Circuit Theory and Design (ECCTD'07), Seville, Spain	2007	26-30 Aug	ISBN 1- 4244- 1342-7	942- 945	5	0.25	6.500	https://www.webofscience.com/wos/woscc/full-record/WOS:000258708400233

	A	B	C	D	E	F	G	H	I	J	K	L	M
24		15	Amăricăi Alexandru, Vlăduțiu Mircea, Prodan Lucian, Udrescu Mihai, Boncalo Oana	Hardware Support for Combined Interval and Floating Point Multiplication	Proceedings 14th Mixed Design Of Integrated Circuits and Systems, Ciechocinek, Poland	2007	21-23 Jun	ISBN: 83- 922632- 4-3	278- 282	5	0.25	6.500	https://www.webofscience.com /wos/woscc/full- record/WOS:000248943600048
25		16	Amaricai Alexandru, Vlăduțiu Mircea, Prodan Boncalo Oana, Udrescu Mihai, Prodan Lucian, Vlăduțiu	Design of Addition and Multiplication Units for High Performance Interval Arithmetic Processor	IEEE Workshop on Design and Diagnostics of Electronic Circuits and Systems, Krakow, Poland	2007	11-13 Apr	ISBN: 1- 4244- 1161-0	223- 226	5	0.25	6.500	https://www.webofscience.com /wos/woscc/full- record/WOS:000250200100037
26		17	Ruican Cristian, Udrescu Mihai, Prodan Lucian, Vlăduțiu	Using Simulated Fault Injection for Fault Tolerance Assessment of Quantum Circuits	Proceedings IEEE 40th Annual Simulation Symposium, Norfolk VA, USA	2007	26-28 Mar	ISSN: 1080- 241X, ISBN: 0- 7605-	213- 220	5	0.25	6.500	https://www.webofscience.com /wos/woscc/full- record/WOS:000246172800024
27		18	Prodan Lucian, Udrescu Mihai, Prodan Lucian, Vlăduțiu	Automatic Synthesis for Quantum Circuits using Genetic Algorithms	Proceedings ICANN'07 "Adaptive and Natural Computing Algorithms", LNCS 4431 (Springer -Verlag Berlin Heidelberg), Warsaw, Poland	2007	11-14 Apr	ISBN: 978-3- 540- 71589- 4	174-1 83	4	0.25	8.125	https://www.webofscience.com /wos/woscc/full- record/WOS:000246097200020
28		19	Prodan Lucian, Udrescu Mihai, Vlăduțiu	Fault-Tolerant Memory Design and Partitioning Issues in Embryonics	Evolvable Systems: From Biology to Hardware. LNCS5216, 8th International Conference ICES, Prague 2008	2008	21-24 Sep	ISSN 0302- 9743	372- 381	4	0.25	8.125	https://www.webofscience.com /wos/woscc/full- record/WOS:000260884000033
29		20	Amaricai Alexandru, Prodan Lucian, Udrescu	Floating Point Multiplication Rounding Schemes for Interval Arithmetic	Proceedings 19th IEEE Conference on Application Specific Systems, Architectures and Processors (ASAP), 2008, Leuven,	2008	2-4 Jul	ISBN 978-1- 4244- 1898-5	19-24	5	0.75	9.500	http://www.cnatdca-c15.org/ https://www.webofscience.com /wos/woscc/full- record/WOS:000260566200004
30		21	Ruican Cristian, Udrescu Mihai, Prodan Lucian, Vlăduțiu	Genetic Algorithm Based Quantum Circuit Synthesis with Adaptive Parameters Control	IEEE Congress on Evolutionary Computation (CEC 2009), Trondheim, Norway, 18th-21th May 2009	2009	18-21 May	ISBN 978-1- 4244- 2959-2	896- 903	4	0.75	11.875	http://www.cnatdca-c15.org/ https://www.webofscience.com /wos/woscc/full- record/WOS:000274803100118
31		22	Opintoru Flavius, Vlăduțiu Mircea, Udrescu	Round-Level Concurrent Error Detection Applied to Advanced Encryption Standard	Design and Diagnostics of Electronic Systems, April 15- 17, 2009, Liberec, Czech Republic	2009	15-17 Apr	ISBN 978-1- 4244- 3339-1	270- 275	4	0.25	8.125	https://www.webofscience.com /wos/woscc/full- record/WOS:000267364000058
32		23	Opintoru Flavius, Vlăduțiu Mircea, Udrescu	Round-Level Concurrent Error Detection Applied to Advanced Encryption Standard	Design and Diagnostics of Electronic Systems, April 15- 17, 2009, Liberec, Czech Republic	2009	15-17 Apr	ISBN 978-1- 4244- 3339-1	270- 275	4	0.25	8.125	https://www.webofscience.com /wos/woscc/full- record/WOS:000267364000058

	A	B	C	D	E	F	G	H	I	J	K	L	M
34		23	Ruican Cristian, Udrescu Mihai, Prodan Lucian,	Quantum Circuit Synthesis with Adaptive Parametres Control	EuroGP2009. European Conference on Genetic Programming (Springer-Verlag Berlin Heidelberg, LNCS), LNCS 5481, Tubingen,	2009	15-17 Apr	ISBN 978-3-642-01180-1	339-350	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000265597500029
35		24	Oprîtoiu Flavius, Vlăduțiu Mircea, Prodan	A High-Speed AES Architecture Implementation	7th ACM International Conference on Computing Frontiers (CF'10), Bertinoro, Italy	2010	17-19 May	ISBN 978-1-4503-0044-5	95-96	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000397815700020
36		25	Ruican Cristian, Udrescu Mihai, Prodan Lucian,	Performance Analysis for Genetic Quantum Circuit Synthesis	Proceedings Artificial Intelligence and Soft Computing (ICAISC 2010), Lecture Notes in Computer Science (Springer), vol. 6114,	2010	13 - 17 Jun	ISBN 978-3-642-13231-5	205-212	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000281548200025
37		26	Ruican Cristian, Udrescu Mihai, Prodan	Adaptive vs. Self-Adaptive Parameters for Evolving Quantum Circuits	9th International Conference on Evolvable Systems: From Biology to Hardware (ICES 2010), York, UK, Lecture	2010	6-8 Sep	ISSN: 0302-9743	348-359	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000286407000030
38		27	Agnola Liviu, Vlăduțiu Mircea, Udrescu Mihai, Prodan	Improving performance of robust Self Adaptive Caches by optimizing the switching algorithm	2011 IEEE 14th International Symposium on Design and Diagnostics of Electronic Circuits & Systems (DDECS), Cottbus, Germany	2011	13-15 Apr	ISBN 978-1-4244-9753-9	297 - 300	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000312912900059
39		28	Iovanovici Alexandru, Prodan Lucian, Vlăduțiu	Collaborative environment for road traffic monitoring	Proc. 13th International Conference on ITS Telecommunications (ITST 2013), Tampere, Finland	2013	5-7 Nov	ISBN 978-1-4799-0846-2	232-237	3	0.25	10.833	https://www.webofscience.com/wos/woscc/full-record/WOS:000330842900040
40		29	Cosariu Cristian, Prodan Lucian, Vladutiu Mircea	Toward Traffic Movement Optimization Using Adaptive Inter-Traffic Signaling	Proc. 14th IEEE International Symposium on Computational Intelligence and Informatics (CINTI 2013), Budapest, Hungary	2013	19-21 Nov	ISBN 978-1-4799-0194-4	539-544	3	0.25	10.833	https://www.webofscience.com/wos/woscc/full-record/WOS:000345626300092
41		30	Iovanovici Alexandru, Cosariu Cristian, Prodan Lucian, Udrescu Mihai, Vlăduțiu Mircea	A hierarchical approach in deploying traffic lights using complex network analysis	Proc. 18th International Conference on System Theory, Control and Computing (ICSTCC 2014), Sinaia, Romania	2014	17-19 Oct	ISBN 978-1-4799-4601-3	791-796	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000704338900130

	A	B	C	D	E	F	G	H	I	J	K	L	M
42		31	Iovanovici Alexandru, Topirceanu Alexandru, Udrescu Mihai, Prodan Lucian	A high-availability architecture for continuous monitoring of sleep disorders	Proc. 26th Medical Informatics in Europe (MIE) Conference on Digital Healthcare Empowering Europeans, DOI: 10.3233/978-1-61499-512-8-729-733, WOS: 000455817000152	2015	27-29 May	ISBN 978-1-61499-511-1 ISSN 0926-0620	729-733	5	0.25	6.500	https://www.webofscience.com/wos/woscc/full-record/WOS:000455817000152
43		32	Coșariu Cristian, Iovanovici Alexandru, Prodan Lucian	Bio-Inspired Redistribution of Urban Traffic Flow Using a Social Network Approach	2015 IEEE Congress on Evolutionary Computation (CEC), DOI: 10.1109/CEC.2015.7256877, WOS: 000380444800011	2015	25-28 May	ISBN 978-1-4799-7492-4 ISSN 1080-1080	77-84	5	0.25	6.500	https://www.webofscience.com/wos/woscc/full-record/WOS:000380444800011
44		33	Iovanovici Alexandru, Topirceanu Alexandru, Udrescu Mihai, Prodan Lucian,	Heuristic Optimization of Wireless Sensor Networks Using Social Network Analysis	Proc. 6th International Workshop on Soft Computing Applications (SOFA 2014), Series: Advances in Intelligent Systems and Computing, Chapter: Soft Computing	2015	24-26 July	ISBN 978-3-319-18295-7 ISSN 2194-2194	663-671	5	0.25	6.500	https://www.webofscience.com/wos/woscc/full-record/WOS:000452853200051
45		34	Topirceanu Alexandru, Iovanovici Alexandru, Coșariu Cristian, Udrescu Mihai	Social Cities: Redistribution of Traffic Flow in Cities Using a Social Network Approach	Proc. 6th International Workshop on Soft Computing Applications (SOFA 2014), Series: Advances in Intelligent Systems and Computing, Chapter: Soft Computing	2015	24-26 July	ISBN 978-3-319-18295-7 ISSN 2194-2194	39-49	6	0.25	5.417	https://www.webofscience.com/wos/woscc/full-record/WOS:000452853200004
46		35	Babani Gabriel, Iovanovici Alexandru, Coșariu Cristian	Determination of the critical congestion point in urban traffic networks: a case study	14th International Scientific Conference on Informatics, Poprad, Slovakia, DOI: 10.1109/INFORMATICS.2017.8327215, WOS: 000452194700005	2017	14-16 November	ISBN 978-1-5386-0889-0	18-23	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000452194700005
47		36	Vladu Catalin, Prodan Lucian, Iovanovici Alexandru	Resource Constrained, Fast Convergence Training for Violence Detection in Video Streams	22nd IEEE International Symposium on Computational Intelligence and Informatics (CINTI2022), Budapest, Hungary	2022	21-22 November	ISBN 979-8-3503-9882-3	239-244	3	0.25	10.833	https://www.webofscience.com/wos/woscc/summary/57a4afaf-eee5-483a-8c25-652aa792f359-012fdff98f/relevance/1

	A	B	C	D	E	F	G	H	I	J	K	L	M
48		37	Avramoni Dacian, Virlean Roxana, Prodan Lucian, Iovanovici Alexandru	Detection of Pill Intake Associated Gestures using Smart Wearables and Machine Learning	22nd IEEE International Symposium on Computational Intelligence and Informatics (CINTI2022), Budapest, Hungary	2022	21-22 November	ISBN 979-8- 3503- 9882-3	251- 256	4	0.25	8.125	https://www.webofscience.com/wos/woscc/summary/434a1c82313a-4c20-aba1-9ed42f05406e-012fe02d3f/relevance/1
49										TOTAL	9.25	263.625	
50													
51													
52	A2.	ISI Proceedings In Tara											
53	NI												
54	Cr		Autori	Titlul lucrării	Conferința, Simpozionul, Denumirea volumului, Localitatea, etc.	Anul	Ziua, luna	ISBN și / sau ISSN	Pag.	Nr. autori	Factor de impact	Punctaj	
55		38	Boncalo Oana, Udrescu Mihai, Prodan Lucian, Vlăduțiu Oprișoru	Simulated Fault Injection for Quantum Circuits Based on Simulator Commands	4th International Symposium on Applied Computational Intelligence and Informatics (SACI) May 17-18, 2007 Timisoara, Romania	2007	17-18 May	ISBN 1- 4244- 1234-X	245- 250	5	0.25	6.5	https://www.webofscience.com/wos/woscc/full-record/WOS:000248622500043
56		39	Flavius, Vlăduțiu Mircea, Prodan Lucian	Built-In Self Test Applicability for the Non-Linear Operations of Advanced Encryption Standard	5th International Symposium on Applied Computational Intelligence and Informatics (SACI), May 28-29, 2009, Timisoara, Romania	2009	28-29 May	ISBN: 978-1- 4244- 4478-6	307- 312	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000273929400056
57		40	Iovanovici Alexandru, Coșariu Cristian, Prodan Lucian	A Hierarchical Approach in Deploying Traffic Lights Using Complex Network Analysis	18th International Conference on System Theory, Control and Computing, Sinaia, Romania, October 17-19, 2014	2014	17-19 October	ISBN 978-1- 4799- 4601-3	791- 796	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000704338900130
58		41	Baban Gabriel, Iovanovici Alexandru, Coșariu Cristian, Prodan Lucian	High Betweenness Nodes and Crowded Intersections: An Experimental Assessment by Means of Simulation	2018 IEEE 12th International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania, DOI: 10.1109/SACI.2018.8440989 , WOS: 000448144200059	2018	17-19 May	ISBN 978-1- 5386- 0889-0	339- 344	4	0.25	8.125	https://www.webofscience.com/wos/woscc/full-record/WOS:000448144200059

[illegible]

A 2.2 Articole în reviste și lucrări în volumele unor manifestări științifice indexate în alte baze de date internaționale recunoscute (BDI)

Articole BDI		A2.2									
Nr. Crt	Autori	Titlul lucrării	Conferința, Simpozionul, Denumirea volumului, Localitatea, etc.	BDI (Baza de date internațională)	Anul	Ziua, luna	ISBN și / sau ISSN	Pag.	Nr. autori	Punctaj	
1	Prodan Lucian, Tempesti Gianluca, Mange Daniel, Stauffer Andre	Embryonics: Artificial Cells Driven by Artificial DNA	Proc. 4th International Conference on Evolvable Systems (ICES2001), Tokyo, Japan, LNCS 2210	Springer	2001	3-5, 10	ISBN 3-540-42671-X	100-110	4	5.000	https://link.springer.com/chapter/10.1007/3-540-45443-8_9
2	Prodan Lucian, Tempesti Gianluca, Mange Daniel, Stauffer Andre	Embryonics: Electronic Stem Cells	Proc. AAAI 8th International Conference on Artificial Life, MIT Press, Cambridge MA	ALife	2002	9-13, 12	ISBN 0-262-69281-2	101-104	4	5.000	http://alife8.alife.org/proceedings/sub2089.pdf
3	Udrescu Mihai, Prodan Lucian, Vlăduțiu Mircea	Using HDLs for Describing Quantum Circuits: A Framework for Efficient Quantum Algorithm Simulation	Proceedings 1st ACM Conference on Computing Frontiers, Ischia, Italy	ACM	2004	14-16 Apr	ISBN 1-58113-741-9	96-110	3	6.667	https://dl.acm.org/doi/pdf/10.1145/977091.977107
4	Udrescu Mihai, Prodan Lucian, Vlăduțiu Mircea	Improving Quantum Circuit Dependability with Reconfigurable Quantum Gate Arrays	Proceedings 2nd ACM International Conference on Computing Frontiers (CF'05), Ischia, Italy	ACM	2005	4-6 May	ISBN 1-59593-018-3	133-144	3	6.667	https://dl.acm.org/doi/abs/10.1145/1062261.1062286
5	Prodan Lucian, Udrescu Mihai, Vlăduțiu Mircea	Reliability Assessment in Embryonics Inspired by Fault-Tolerant Quantum Computation	Proceedings 2nd ACM International Conference on Computing Frontiers (CF'05), Ischia, Italy	ACM	2005	4-6 May	ISBN 1-59593-018-3	323-333	3	6.667	https://dl.acm.org/doi/10.1145/1062261.1062315
6	Udrescu Mihai, Prodan Lucian, Vlăduțiu Mircea	Implementing Quantum Genetic Algorithms: A Solution Based on Grover's Algorithm	3rd ACM International Conference on Computing Frontiers (CF'06), Ischia, Italy	ACM	2006	2-5 May	ISBN 1-59593-302-6	71-82	3	6.667	https://dl.acm.org/doi/10.1145/1128022.1128034
7	Prodan Lucian, Udrescu Mihai, Vlăduțiu Mircea	A Dependability Perspective on Emerging Technologies	3rd ACM International Conference on Computing Frontiers (CF'06), Ischia, Italy	ACM	2006	2-5 May	ISBN 1-59593-302-6	187-198	3	6.667	https://dl.acm.org/doi/10.1145/1128022.1128049
8	Boncalo Oana, Udrescu Mihai, Prodan Lucian, Vlăduțiu Mircea,	Error-Model Driven Analysis of Quantum Circuit's Reliability	Proceedings 8th IEEE Conference on Nanotechnology, August 18-21, 2008, Arlington, USA	IEEE	2008	18-21 Aug	ISBN 978-1-4244-2104-6	103-106	5	4.000	https://ieeexplore.ieee.org/document/4617169

9	Oprîtoiu Flavius, Vlăduțiu Mircea, Udrescu Mihai, Prodan Lucian	Concurrent Error Detection for Multiplicative Inversion of Advanced Encryption Standard	10th IEEE International Conference on Computer and Information Technology (CIT 2010), Bradford, UK	IEEE	2010	29-30 Jun	ISBN 978-0- 7695-4108- 2	582-588	4	5.000	https://ieeexplore.ieee.org/document/5578117
10	Agnola Liviu, Vlăduțiu Mircea, Udrescu Mihai, Prodan Lucian	Improving performance and area overhead by reducing the switching table for Self Adaptive cache Memories	IEEE 17th International Symposium for Design and Technology in Electronic Packaging (SIITME), Timisoara, Romania	IEEE	2011	20-23 Oct	ISBN: 978-1- 4577-1276- 0	173-178	4	5.000	https://ieeexplore.ieee.org/document/6102712
11	Mezo Patrik, Vlăduțiu Mircea, Prodan Lucian	A Distributed Mailing System	IEEE 17th International Symposium for Design and Technology in Electronic Packaging (SIITME), Timisoara, Romania	IEEE	2011	20-23 Oct	ISBN: 978-1- 4577-1276- 0	349-354	3	6.667	https://ieeexplore.ieee.org/document/6102750
12	Mezo Patrik, Vlăduțiu Mircea, Prodan Lucian	Interoperability Solution between Peer-to-Peer and Client-Server based Mailing Systems	IEEE 17th International Symposium for Design and Technology in Electronic Packaging (SIITME), Timisoara, Romania	IEEE	2011	20-23 Oct	ISBN: 978-1- 4577-1276- 0	45-48	3	6.667	https://ieeexplore.ieee.org/document/6102684
13	Mare Septimiu, Vlăduțiu Mircea, Prodan Lucian	Secret data communication system using Steganography, AES and RSA	IEEE 17th International Symposium for Design and Technology in Electronic Packaging (SIITME), Timisoara, Romania	IEEE	2011	20-23 Oct	ISBN: 978-1- 4577-1276- 0	339-344	3	6.667	https://ieeexplore.ieee.org/document/6102748
14	Mare Septimiu, Vlăduțiu Mircea, Prodan Lucian	HDR-based steganographic algorithm	IEEE 17th International Symposium for Design and Technology in Electronic Packaging (SIITME), Timisoara, Romania	IEEE	2011	20-23 Oct	ISBN: 978-1- 4577-1276- 0	333-338	3	6.667	https://ieeexplore.ieee.org/document/6102747
15	Mezo Patrik, Vladutiu Mircea, Prodan Lucian	Design of a Hierarchical based DHT Overlay P2P Routing Algorithm	Proc. 11th IEEE International Conference on Computer and Information Technology (CIT2011), Paphos, Cyprus, Aug 31 – Sep 2 2011	IEEE	2011	31.08- 2.09	ISBN 978-0- 7695-4388- 8/11	415-420	3	6.667	https://ieeexplore.ieee.org/document/6036803
16	Mare Septimiu, Vladutiu Mircea, Prodan Lucian	Decreasing change impact using smart LSB Pixel mapping and data rearrangement	Proc. 11th IEEE International Conference on Computer and Information Technology (CIT2011), Paphos, Cyprus, Aug 31 – Sep 2 2012	IEEE	2011	31.08- 2.10	ISBN 978-0- 7695-4388- 8/11	269-276	3	6.667	https://ieeexplore.ieee.org/document/6036771

17	Agnola Liviu, Vlăduțiu Mircea, Udrescu Mihai, Prodan Lucian	Simplified selective fault tolerance technique for protection of selected inputs via triple modular redundancy	7th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania	IEEE	2012	24-26 May	ISBN: 978-1-4673-1013-0	267-272	4	5.000	https://ieeexplore.ieee.org/document/6250014
18	Mare Septimiu, Vladutiu Mircea, Prodan Lucian	High Capacity Steganographic Algorithm Based on Payload Adaptation and Optimization	7th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania	IEEE	2012	24-26 May	ISBN: 978-1-4673-1013-0	87-92	3	6.667	https://ieeexplore.ieee.org/document/6249981
19	Mezo Patrik, Vlăduțiu Mircea, Prodan Lucian	HMail: A Hybrid Mailing System Based on the Collaboration between Traditional and Peer-to-Peer Mailing Architectures	7th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania	IEEE	2012	24-26 May	ISBN: 978-1-4673-1013-0	255-260	3	6.667	https://ieeexplore.ieee.org/document/6250012
20	Avramoni Dacian, Iovanovici Alexandru, Cosariu Cristian, Szeidert-Subert Iosif, Prodan Lucian	Real Time Urban Traffic Data Pinpointing Most Important Crossroads	In: Balas V., Jain L., Balas M., Shahbazova S. (eds) Soft Computing Applications. SOFA 2018. Advances in Intelligent Systems and Computing, vol 1221. Springer, Cham. https://doi.org/10.1007/978-3-030-51992-6_23	Springer	2018	13-15 Sep	ISBN 978-3-030-51991-9	294-306	5	4.000	https://link.springer.com/chapter/10.1007/978-3-030-51992-6_23
21	Iovanovici Alexandru, Prodan Lucian, Avramoni Dacian	Traffic flow in 13 Romanian cities during and around lifting of COVID19 restrictions	Mendeley Data, V3, doi: 10.17632/g64s8h9k57.3	Elsevier	2020	14.Aug	DOI: 10.17632/g64s8h9k57.2		3	6.667	https://data.mendeley.com/datasets/g64s8h9k57/2
22	Avramoni Dacian, Iovanovici Alexandru, Ilienescu Anca-	Short term traffic congestion prediction using publically available traffic data: a case study on Timisoara	IEEE 20th Jubilee World Symposium on Applied Machine Intelligence and Informatics (SAMI), DOI:	IEEE	2022	2-5 March	ISBN 978-1-6654-9704-6	121-126	4	5.000	https://ieeexplore.ieee.org/document/9780813
23	Szatmari Larisa, Prodan Lucian, Iovanovici Alexandru, Avamoni Dacian	Road Intersection Optimization with Resource-Constrained Metaheuristic: A Case Study	20th IEEE International Symposium on Intelligent Systems and Informatics (SISY2022), Subotica, Serbia	IEEE	2022	15-17 Septemb er	ISBN 978-1-6654-9704-6		4	5.000	https://ieeexplore.ieee.org/document/10036312
									TOTAL	136.333	

Granturi (director de grant)

A2.4.1.2

Nr. Crt	Echipa de cercetare (Director și cercetători)	Denumirea grantului	Programul	Nr. grant/an	Ani de desfășurare	Valoare totală grant	Punctaj
1	Prodan Lucian, Ancușa Versavia, Ruican Cristian, Doandș Elena, Bogdan Răzvan, Căvășdan Marius, Varius Lucian	Estimarea dependabilitatii sistemelor emergente bioinspirate cu strategii ierarhice de reconfigurare prin metode clasice si interdisciplinare	CNCSIS, Tip A	371/2007	2007-2008	126409 RON	20
2	Prodan Lucian, Iovanovici Alexandru, Cosariu Cristian, Udrescu Mihai, Baban Gabriel, Avramoni Dacian, Topirceanu Alexandru, Szeidert- Subert Iosif, Opritoiu Flavius	Validare experimentală a unui sistem de transport inteligent bazat pe algoritmi auto-adaptivi	PNIII, PED	PN-III-P2- 2.1-PED- 2016-1518	2017-2018	468425 RON	20
						TOTAL	40

Granturi (membru in echipa de cercetare) A2.4.2.1

Nr. Crt	Echipa de cercetare (Director și cercetători)	Denumirea grantului	Programul	Nr. Grant	Ani de desfășurare	Valoare totală grant	Punctaj
3	Daniel Mange, Gianluca Tempesti, Hector Fabio Restrepo, Prodan Lucian, et al.	Implementation of self-repairing and self-replicating processors in a universal cellular structure	SNF	SNF 21- 54113.98	1998-1999	83932 CHF	8
4	Tony Pipe, Gabriel Dragffy, Andy Tyrrell, Gianluca Tempesti, Jon Timmis, Prodan Lucian, Mohammad Samie, Anca Popescu, Paul Bremner, Omar Qadir, Yang Liu	Self-healing Cellular Architectures for Biologically-inspired Highly Reliable Electronic Systems	EPSRC	EPSRC EP/F06219 2/1	2008-2010	353671 GBP	12
						TOTAL	20

Granturi (membru in echipa de cercetare) A2.4.2.2

Nr. Crt	Echipa de cercetare (Director și cercetători)	Denumirea grantului	Programul	Nr. Grant	Ani de desfășurare	Valoare totală grant	Punctaj
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5	Vlăduțiu Mircea, Udrescu Mihai, Prodan Lucian, et al.	Promovarea si managementul institutionalizat al activitatilor de educatie permanenta	CNFIS	55/1999	1999-2002	150000 USD	6
6	Vlăduțiu Mircea, Udrescu Mihai, Prodan Lucian, Boncalo Oana, Amăricăi Alexandru, Ancusa Versavia, Velciov Nicolae, Anton Alin	Proiectarea Bioinspirata a Aplicatiilor pe Platforme Reconfigurabile	CNCSIS, Tip A	643/2005	2005-2007	67800 RON	6
7	Vlăduțiu Mircea, Udrescu Mihai, Prodan Lucian, Boncalo Oana, Amăricăi Alexandru	Arhitecturi Bioinspirate de Calcul pentru Circuite Logice Reversibile si Cuantice	PNII, IDEI	17/2007	2007-2009	440011 RON	6
8	Valentin Muresan (director), Mihai Micea (UPT manager), Cristian Cuna, Vladimir Cretu, Mircea Vladutiu, Horia Ciocarlie, Doru Todinca, Mihai Udrescu, Lucian Prodan, et al.	FALX DACIAE: Software Development Tools and Processes for Advanced Multimedia Applications on Mobile Phone Multi-Core Architectures	POSCCE	A2- O2.1.1/449 /11844	2010-2012	506400 EUR	6
						TOTAL	24

Citări în cărți, reviste și volume ale unor manifestări științifice
A3.1.1 (cărți, ISI)

Nr. Crt.	Articol care citează	ISI-J/ ISI-P/ Carte / Q	Articol citat	Nr. autori	Punctaj	
	2025					
1	M. Polo, I. García-Rodríguez, M. Serrano, M. Piattini. Generation of Quantum Software From Truth Tables. SOFTWARE-PRACTICE & EXPERIENCE 55 (8), pp.1389-1407, SOFTWARE-PRACTICE & EXPERIENCE, Volume 55, Issue 8, Page: 1389-1407, DOI: 10.1002/spe.3426, Aug 2	Q2	"Ruican, C.; Udrescu, M.; Prodan, L.; and Vladutiu, M. 2007. Automatic synthesis for quantum circuits using genetic algorithms. In Beliczynski, B.; Dzielinski, A.; Iwanowski, M.; and Ribeiro, B., eds., Adaptive and Natural Computing Algorithms, 174–183. Berlin, Heidelberg: Springer Berlin Heidelberg."	4	4.00	https://www.webofscience.com/wos/woscc/full-record/WOS:001478965700001
2	P. Escofet, S. Rodrigo, A. García-Sáez, E. Alarcón, S. Abadal, C.G. Almudéver. An accurate and efficient analytic model of fidelity under depolarizing noise oriented to large scale quantum system design. QUANTUM SCIENCE AND TECHNOLOGY, Volume 10, Issue 3,	Q2	Oana Boncalo, Mihai Udrescu, Lucian Prodan, Mircea Vladutiu, Alexandru Amaricai, "Using Simulated Fault Injection for Fault Tolerance Assessment of Quantum Circuits", Proceedings IEEE 40th Annual Simulation Symposium, Norfolk VA, USA, 26-28 Mar, 2007, pp. (213-220), ISSN: 1080-241X, ISBN: 0-7695-2814-7.	5	3.20	https://www.webofscience.com/wos/woscc/full-record/WOS:001530906800001
3	I. Islam, V. Jha, S. Thomas, K.F. Egan, A. Nobel, S. Kim, M. Chaudhary, S. Ogundele, D. Kneidel, B. Phillips. Quantum Circuit Synthesis Using Fuzzy-Logic-Assisted Genetic Algorithms. ALGORITHMS, Volume 18, Issue 4, DOI: 10.3390/a18040178, MAR 21 2025	Q3	Cristian Ruican, Mihai Udrescu, Lucian Prodan, Mircea Vladutiu. Genetic Algorithm Based Quantum Circuit Synthesis with Adaptive Parameters Control. IEEE Congress on Evolutionary Computation (CEC 2009), Trondheim, Norway, 18-21 May 2009, pp. (896-903), ISBN 978-1-4244-2959-2.	4	2.00	https://www.webofscience.com/wos/woscc/full-record/WOS:001474678400001
4	C. Gheorghe, A. Soica. Revolutionizing Urban Mobility: A Systematic Review of AI, IoT, and Predictive Analytics in Adaptive Traffic Control Systems for Road Networks. ELECTRONICS, Volume 14 Issue 4, DOI: 10.3390/electronics14040719, FEB 2025	Q3	A. Iovanovici, D. Avramoni, A.M. Moscovici, L. Prodan. Traffic micro-simulation as a validation tool for developing genetic algorithms for green wave optimization. IEEE 14th International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania, 21-23 May 2020, pp. 147-152 doi: 10.1109/SACI49304.2020.9118841	4	2.00	https://www.webofscience.com/wos/woscc/full-record/WOS:001431681200001
	2024					
5	S.Y. Kuo, C.Y. Hua, E.T. Hsu, H.P. Chen, J.Y. Shen, C.L. Liu, Y.H. Chou, H.S. Goan. Controlled-swap-based and Knowledge Navigated Quantum-inspired Computational Intelligence for Quantum Circuit Optimization. 2024 IEEE INTERNATIONAL CONFERENCE ON FUZZY SYS	ISI-P	Cristian Ruican, Mihai Udrescu, Lucian Prodan, Mircea Vladutiu. Genetic Algorithm Based Quantum Circuit Synthesis with Adaptive Parameters Control. IEEE Congress on Evolutionary Computation (CEC 2009), Trondheim, Norway, 18-21 May 2009, pp. (896-903), ISBN 978-1-4244-2959-2.	4	2.00	https://www.webofscience.com/wos/woscc/full-record/WOS:001293753100107

6	C. Allende, A.F. de Olivera, E. Buksman. Synthesis of quantum circuits based on supervised learning and correlations. QUANTUM INFORMATION PROCESSING, Volume 23, Issue 6, DOI: 10.1007/s11128-024-04426-6, MAY 24 2024	Q2	"Ruican, C.; Udrescu, M.; Prodan, L.; and Vladutiu, M. 2007. Automatic synthesis for quantum circuits using genetic algorithms. In Beliczynski, B.; Dzielinski, A.; Iwanowski, M.; and Ribeiro, B., eds., Adaptive and Natural Computing Algorithms, 174–183. Berlin, Heidelberg: Springer Berlin Heidelberg."	4	4.00	https://www.webofscience.com/wos/woscc/full-record/WOS:001232469600003
7	A. Olyanasab, M. Annabestani. Leveraging Machine Learning for Personalized Wearable Biomedical Devices: A Review. JOURNAL OF PERSONALIZED MEDICINE, Vol. 14, Issue 2, DOI: 10.3390/jpm14020203, Feb 2024	Q2	Avramoni Dacian, Virlan Roxana, Prodan Lucian, Iovanovici Alexandru. Detection of Pill Intake Associated Gestures using Smart Wearables and Machine Learning. 22nd IEEE International Symposium on Computational Intelligence and Informatics (CINTI2022), Budapest, Hungary	4	4.00	https://www.webofscience.com/wos/woscc/full-record/WOS:001172284300001
	2023					
8	T. Rindell, B. Yenilen, M. Raasakka. Exploring the optimality of approximate state preparation quantum circuits with a genetic algorithm. PHYSICS LETTERS A 475, DOI: 10.1016/j.physleta.2023.128860, Jul 5 2023	Q2	"Ruican, C.; Udrescu, M.; Prodan, L.; and Vladutiu, M. 2007. Automatic synthesis for quantum circuits using genetic algorithms. In Beliczynski, B.; Dzielinski, A.; Iwanowski, M.; and Ribeiro, B., eds., Adaptive and Natural Computing Algorithms, 174–183. Berlin, Heidelberg: Springer Berlin Heidelberg."	4	4.00	https://www.webofscience.com/wos/woscc/full-record/WOS:000990913800001
9	A. Bhongade, R. Gupta, T.K. Gandhi, A.P. Prathosh. A Portable Low-Cost Respiration Rate Measurement System for Sleep Apnea Detection. 2023 45TH ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE & BIOLOGY SOCIETY, EMBC, DOI: 10.1109/EMBC4	ISI-P	A. Iovanovici, A. Topirceanu, M. Udrescu, L. Prodan, S. Mihaicuta. A high-availability architecture for continuous monitoring of sleep disorders. Proc. 26th Medical Informatics in Europe (MIE) Conference on Digital Healthcare Empowering Europeans, DOI: 10.3233/978-1-61499-512-8-729, WOS: 000455817000152	5	1.60	https://www.webofscience.com/wos/woscc/full-record/WOS:001133788302033
10	M. Sanda, D. Dunea, S. Iordache, L. Predescu, M. Predescu, A. Pohoata, I. Onutu. Recent Urban Issues Related to Particulate Matter in Ploiesti City, Romania. ATMOSPHERE, Volume14, Issue4, DOI: 10.3390/atmos14040746, april 2023	Q3	A. Iovanovici, D. Avramoni, L. Prodan. A dataset of urban traffic flow for 13 Romanian cities amid lockdown and after ease of COVID19 related restrictions. Elsevier Data in Brief, ISSN 2352-3409, vol. 32, DOI: 10.1016/j.dib.2020.106318	3	2.67	https://www.webofscience.com/wos/woscc/full-record/WOS:000978308000001
	2022					
11	K. Murakami, J.J. Zhao. Automated Synthesis of Quantum Circuits using Neural Network. 2022 IEEE 22ND INTERNATIONAL CONFERENCE ON SOFTWARE QUALITY, RELIABILITY AND SECURITY, QRS, Page: 694-702, DOI: 10.1109/QRS57517.2022.00075, Guangzhou, CHINA, DEC 05-09,	ISI-P	"Ruican, C.; Udrescu, M.; Prodan, L.; and Vladutiu, M. 2007. Automatic synthesis for quantum circuits using genetic algorithms. In Beliczynski, B.; Dzielinski, A.; Iwanowski, M.; and Ribeiro, B., eds., Adaptive and Natural Computing Algorithms, 174–183. Berlin, Heidelberg: Springer Berlin Heidelberg."	4	2.00	https://www.webofscience.com/wos/woscc/full-record/WOS:000980981100065
12	S.A. Zargari, N.A. Khorshidi, H. Mirzahosseini, S. Shakoobi, X. Jin. Travel time reliability prediction by genetic algorithm and machine learning models. PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-TRANSPORT, Vol.177, Issue 4, Page: 214-223, DOI: 10.	ISI-P	A. Iovanovici, D. Avramoni, A.M. Moscovici, L. Prodan. Traffic micro-simulation as a validation tool for developing genetic algorithms for green wave optimization. IEEE 14th International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania, 21-23 May 2020, pp. 147-152 doi: 10.1109/SACI49304.2020.9118841	4	2.00	https://www.webofscience.com/wos/woscc/full-record/WOS:000899102700001

13	H. Sümbül, A.H. Yüzer, K. Sekeroglu. A Novel Portable Real-Time Low-Cost Sleep Apnea Monitoring System based on the Global System for Mobile Communications (GSM) Network. MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, Vol. 60, Issue 2, Page: 619-632, DOI:	Q3	A. Iovanovici, A. Topirceanu, M. Udrescu, L. Prodan, S. Mihaicuta. A high-availability architecture for continuous monitoring of sleep disorders. Proc. 26th Medical Informatics in Europe (MIE) Conference on Digital Healthcare Empowering Europeans, DOI: 10.3233/978-1-61499-512-8-729, WOS: 000455817000152	5	1.60	https://www.webofscience.com/wos/woscc/full-record/WOS:000742596500003
14	X.W. Shan, X. Zhang, C.K. Tse. Identifying Sets of Critical Components That Affect the Resilience of Power Networks. IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS 69 (12), pp.4859-4863, Dec. 2022	Q1	G. Baban, A. Iovanovici, C. Cosariu, L. Prodan. High Betweenness Nodes and Crowded Intersections: An Experimental Assessment by Means of Simulation. 2018 IEEE 12th International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania, DOI: 10.1109/SACI.2018.8440989, WOS: 000448144200059, 17-19 May 2018, ISBN 978-1-5386-0889-0, pp. 339-344	4	4.00	https://www.webofscience.com/wos/woscc/full-record/WOS:000922028300047
15	E.E.Mon, H. Ochiai, P. Komolkiti, C. Aswakul. Real-world sensor dataset for city inbound-outbound critical intersection analysis. Scientific Data, Volume 9, Issue 1, Article 357, DOI: 10.1038/s41597-022-01448-6, 2022.	Q1	A. Iovanovici, D. Avramoni, L. Prodan. A dataset of urban traffic flow for 13 Romanian cities amid lockdown and after ease of COVID19 related restrictions. Elsevier Data in Brief, ISSN 2352-3409, vol. 32, DOI: 10.1016/j.dib.2020.106318	3	5.33	https://www.webofscience.com/wos/woscc/full-record/WOS:000814276800002
	2021					
16	J. Kusyk, S.M. Saeed, M.U. Uyar. Survey on Quantum Circuit Compilation for Noisy Intermediate-Scale Quantum Computers: Artificial Intelligence to Heuristics. IEEE TRANSACTIONS ON QUANTUM ENGINEERING, Volume 2, DOI: 10.1109/TQE.2021.3068355, 2021	Q1	Ruican, C., Udrescu, M., Prodan, L., 2008. A Genetic Algorithm Framework Applied to Quantum Circuit Synthesis. pp. 419–429. 10.1007/978-3-540-78987-1_38.	3	5.33	https://www.webofscience.com/wos/woscc/full-record/WOS:001369087800008
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93	Wang, Ping ; Zeng, Sanyou ; Yan, Jingfeng ; et al. Using multi-objective evolutionary algorithm in PLD model to implement the automatic design of logic circuits. 2nd International Symposium on Intelligence Computation and Application (ISICA 2007), Wuhan, CHINA, SEP 21-23, 2007, Pages: 120-123, 2007, ISBN: 978-3540745808	ISI-P	L. Prodan, M. Udrescu, M. Vladutiu. Self-Repairing Embryonic Memory Arrays. IEEE NASA/DoD Conference on Evolvable Hardware (EH'04), Seattle WA, USA, June 24 - 26, 2004, pp. 130-137, ISBN 0-7695-2145-2	3	2.67	https://www.webofscience.com/wos/woscc/summary/d839e212-fd88-4359-86eb-b46b07642ed5-65e2821d/relevance/1
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98	Stauffer, A; Mange, D and Tempesti, G. Bio-inspired computing machines with self-repair mechanisms. 2nd International Workshop on Biologically Inspired Approaches for Advanced Information Technology, 2006. BIOLOGICALLY INSPIRED APPROACHES TO ADVANCED INFORMATION TECHNOLOGY, PROCEEDINGS 3853, pp.128-140	Q4	L. Prodan, M. Udrescu, and M. Vladutiu. Survivability of embryonic memories: Analysis and design principles. In R. S. Zebulum et al, editor, Proceedings of the NASA/DoD Conference on Evolvable Hardware (EH'04), pages 130{137. IEEE Computer Society, Los Alamitos, CA, 2004.	3	2.67	https://www.webofscience.com/wos/woscc/full-record/WOS:000235807500013

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104	Metodi, Tzvetan; Faruque, Arvin I.; Chong, Frederic T. Quantum Computing for Computer Architects 1st Ed. Morgan & Claypool Publishers, 2006, 154 pages	Carte	M. Udrescu, L. Prodan, M. Vladutiu. Improving Quantum Circuit Dependability with Reconfigurable Quantum Gate Arrays. 2nd ACM International Conference on Computing Frontiers (CF'05), Ischia, Italy, May 4 - 6 2005, pp. 133-144, ACM Press ISBN 1-59593-018-3	3	2.67	2006_Quantum Computing for Computer Architects 1.pdf
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107	R.A. Freitas Jr., R.C. Merkle. Kinematic Self-Replicating Machines. Landes Bioscience, 2004, ISBN 1-57059-690-5	carte	L. Prodan, G. Tempesti, D. Mange, A. Stauffer. Embryonics: Electronic Stem Cells. (R.K. Standish, M.A. Bedau, and H.A. Abbass, Eds., Artificial Life VIII, Proc. 8th International Conference on Artificial Life, Bradford Book, The MIT Press, Cambridge MA, 2003, pp.101-105, ISBN 0-262-69281-3)	4	2.00	https://www.amazon.com/Kinematic-Self-Replicating-Machines-Robert-Freitas/dp/1570596905
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				TO TAL	344.667	

Nr. Crt.	Articol care citeaza	BDI	Articol citat	Nr. autori	Punctaj
	2020				
1	Ana Zambrano, Marcelo Zambrano, Eduardo Ortiz, Xavier Calderon, Miguel Botto Tobar. An Intelligent Transportation System: the Quito City Case Study. International Journal on Advanced Science, Engineering and Information Technology, Vol. 10 (2020) No. 2, pages: 507-519, DOI:10.18517/ijaseit.10.2.9241	Scopus	Gabriel Baban, Alexandru Iovanovici, Cristian Cosariu, Lucian Prodan. Determination of the critical congestion point in urban traffic networks: a case study. 14th International Scientific Conference on Informatics, Poprad, Slovakia, 14-16 November 2017, pp. 18-23, doi: 10.1109/INFORMATICS.2017.8327215	5	0.800
2	Munira Tabassum, Afjal H. Sarower, Ashrafia Esha, Md. Maruf Hassan. An Enhancement of Kerberos Using Biometric Template and Steganography. In T. Bhuiyan et al. (Eds.): ICONCS 2020, LNICST 325, pp. 116–127, 2020. https://doi.org/10.1007/978-3-030-52856-0_9	Springer	Mare, S.F., Vladutiu, M., Prodan, L.: Secret data communication system using Steganography, AES and RSA. In: 2011 IEEE 17th International Symposium for Design and Technology in Electronic Packaging (SIITME). IEEE (2011)	4	1.000
3	A. Almehmadi, T. Bosakowski, M. Sedky, B.B. Bastaki. HTM Based Anomaly Detecting Model for Traffic Congestion. ACM International Conference on Cloud and Big Data Computing (ICCBDC 2020), pp. 97 - 101, 2020	Scopus	C. Cosariu, A. Iovanovici, L. Prodan, M. Udrescu, M. Vladutiu. Bio-Inspired Redistribution of Urban Traffic Flow Using a Social Network Approach. 2015 IEEE Congress on Evolutionary Computation (CEC), DOI: 10.1109/CEC.2015.7256877, WOS: 000380444800011.	4	1.000
4	Neal, Z. Is the Urban World Small? The Evidence for Small World Structure in Urban Networks. Netw Spat Econ 18, 615–631 (2018). https://doi.org/10.1007/s11067-018-9417-y	Springer	Iovanovici A, Cosariu C, Prodan L, Vladutiu M (2014). A hierarchical approach in deploying traffic lights using complex network analysis. In: Proceedings of the 18th IEEE International Conference on System Theory, Control and Computing (ICSTCC), pp. 791–796	1	4.000
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5	S. Lawer, R. Wang, L. Ming-Zhec. Review of Bio-inspired computations on optimisation of traffic signals. ATRF 2017 - Australasian Transport Research Forum 2017 (ATRF 2017), Auckland, 27-29 November 2017	Scopus	C. Cosariu, A. Iovanovici, L. Prodan, M. Udrescu, M. Vladutiu. Bio-Inspired Redistribution of Urban Traffic Flow Using a Social Network Approach. 2015 IEEE Congress on Evolutionary Computation (CEC), DOI: 10.1109/CEC.2015.7256877, WOS: 000380444800011.	4	1.000

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6	P. Semwal and M. K. Sharma, "Comparative study of different cryptographic algorithms for data security in cloud computing," 2017 3rd International Conference on Advances in Computing, Communication & Automation (ICACCA) (Fall), 2017, pp. 1-7, doi: 10.1109/ICACCAF.2017.8344738.	IEEE	S. Mare, M. Vladutiu and L. Prodan, "Secret datacommunication system using Steganography AESand RSA", IEEE Design and Technology inElectronic Packaging (SIITME) Timisoara, pp. 339-344, October 2011.	2	2.000	https://ieeexplore.ieee.org/abstract/document/8344738
	2016					
7	Ahn, CV; Yoo, J.-C. A quantum evolutionary approach to multimodal optimization. Journal of Computational and Theoretical Nanoscience, 13(1): pp. 636-642, 2016, ISSN: 1546-1955, DOI: 10.1166/jctn.2016.4853	Scopus	Mihai Udrescu, Lucian Prodan, Mircea Vladutiu. Implementing Quantum Genetic Algorithms: A Solution Based on Grover's Algorithm. 3rd ACM International Conference on Computing Frontiers (CF'06), Ischia, Italy, May 2 - 5 2006, pp. 71-82, ACM Press, ISBN 1-59593-302-6	2	2.000	Scopus - Document details - A quantum evolutionary approach to multimodal optimization
	2012					
8	Bojić, A. Quantum Algorithm for Finding a Maximum Clique in an Undirected Graph. Journal of Information and Organizational Sciences. Vol 36, No 2, 2012, Pages 91-98, ISSN 1846-3312	Scopus	Mihai Udrescu, Lucian Prodan, Mircea Vladutiu. Implementing Quantum Genetic Algorithms: A Solution Based on Grover's Algorithm. 3rd ACM International Conference on Computing Frontiers (CF'06), Ischia, Italy, May 2 - 5 2006, pp. 71-82, ACM Press, ISBN 1-59593-302-6	3	1.333	Scopus - Document details - Quantum algorithm for finding a maximum clique in an undirected graph
	2010					
9	Maity, S., Mandal, S.B., Pal, A., Chakrabarti, A., Roy, T. Design of an efficient quantum circuit simulator. Proceedings - 2010 International Symposium on Electronic System Design, ISED 2010, Article number 5715148, Pages 50-55, ISBN: 978-076954294-2	IEEE	C. Ruican, M. Udrescu, L. Prodan, M. Vladutiu. Genetic Algorithm Based Quantum Circuit Synthesis with Adaptive Parameters Control. IEEE Congress on Evolutionary Computation (CEC 2009), Trondheim, Norway, May 18-21 2009, pp. 896-903, ISBN 978-1-4244-2959-2	4	1.000	https://ieeexplore.ieee.org/document/5715148
	2008					
10	Hözl, M., Rauschmayer, A., Wirsing, M. Engineering of software-intensive systems: State of the art and research challenges. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) Volume 5380 LNCS, 2008, Pages 1-44, ISSN: 03029743 ISBN: 3540894365;978-354089436-0	Springer	L. Prodan, M. Udrescu, O. Boncalo, M. Vladutiu. Design for Dependability in Emerging Technologies. ACM Journal of Emerging Technologies in Computing, Volume 3, Issue 2 (Article 6), July 2007, ISSN 1550-4832	4	1.000	https://link.springer.com/chapter/10.1007/978-3-540-89437-7_1
11	Donald A. Sofge. Prospective Algorithms for Quantum Evolutionary Computation. Proceedings of the Second Quantum Interaction Symposium (QI-2008), College Publications, UK, 2008	DBLP	Mihai Udrescu, Lucian Prodan, Mircea Vladutiu. Implementing Quantum Genetic Algorithms: A Solution Based on Grover's Algorithm. 3rd ACM International Conference on Computing Frontiers (CF'06), Ischia, Italy, May 2 - 5 2006, pp. 71-82, ACM Press, ISBN 1-59593-302-6	3	1.333	https://dblp.uni-trier.de/rec/journals/corr/abs-0804-1133.html
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12	Samie, M., Dragffy, G. and Farjah, E. Bio-Inspired Cellular Systems With Cyclic Metamorphic Memory. Proceedings of the 2006 International Conference on Computer Design & Conference on Computing in Nanotechnology, CDES 2006, Las Vegas, Nevada, USA, June 26-29, 2006, DOI: 10.13140/2.1.1127.0088	DBLP	L. Prodan, D. Mange, G. Tempesti. The embryonics project: specifications of the muxtree field programmable gate array. Technical Report No. IC/2002/03, In-Ecublens, CH-1015 Lausanne, Switzerland, pp. 1–23, January 2002	3	1.333	https://dblp.uni-trier.de/pid/82/1251.html
	2001					
13	Pauline Haddow, Gunnar Tufte, Piet van Remortel. Shrinking the Genotype: L-systems for EHW? January 2001, Lecture Notes in Computer Science 2210:128-139, Evolvable Systems: From Biology to Hardware, 4th International Conference, ICES 2001 Tokyo, Japan, October 3-5, 2001	Scopus	L. Prodan, G. Tempesti, D. Mange, A. Stauffer. Biology Meets Electronics: The Path to a Bio-Inspired FPGA. Proc. 3rd International Conference on Evolvable Systems (ICES2000), Edinburgh, Scotland, 2000, Springer LNCS 1801, pp. 187-196, ISBN 3-540-67338-5	4	1.000	Scopus - Document details - Shrinking the genotype: L-systems for EHW?
				TOTAL	11.000	

A 3.2 Membru în comitetele de redacție sau comiteele științifice ale revistelor indexate ISI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internaționale indexate ISI

Nr. crt.	Activitatea	Punctaj
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1	Membru Program Committee, IEEE 7th International Conference on Computer and Information Technology (CIT 2007)	10	https://www.webofscience.com/wos/woscc/summary/1e27cb4a-5021-4790-863d-6a3deed4a1d4-0169378e6f/relevance/1
2	Membru Program Committee, IEEE 8th International Conference on Computer and Information Technology (CIT 2008)	10	https://www.webofscience.com/wos/woscc/summary/e3db49c7-3208-4e63-96be-2e18243f6a1d-0169379c37/relevance/1
3	Session Chair, 8th International Conference on Evolvable Systems: From Biology to Hardware (ICES 2008)	10	https://www.webofscience.com/wos/woscc/summary/c66cb898-b901-4996-9a4c-7267c71e9505-016937aaae/relevance/1
4	Membru Program Committee, IEEE Congress on Evolutionary Computation, 2009	10	https://www.webofscience.com/wos/woscc/summary/ef6d7785-d0fd-47cc-be84-836a6b443fa9-016937c4a8/relevance/1
5	Membru Program Committee, 7th ACM Computing Frontiers Conference 2010	10	https://www.webofscience.com/wos/woscc/summary/8d2a68b1-1e69-4e1b-8b7e-15a42e10d823-016937d38e/relevance/1
6	Membru al Program Committee, 8th ACM Computing Frontiers Conference 2011	10	https://www.webofscience.com/wos/woscc/summary/e44c02ee-0cc0-49ec-b84a-7d0614a883e2-016937e036/relevance/1
7	Membru Program Committee, IEEE 13th Intl Conf on Dependable, Autonomic and Secure Computing (DASC 2015)	10	https://www.webofscience.com/wos/woscc/summary/0b7bd680-b394-427e-94f5-763bbf674e83-016937f6b9/relevance/1
8	Membru Program Committee, IEEE 15th International Conference on Computer and Information Technology (CIT 2015)	10	https://www.webofscience.com/wos/woscc/summary/53b291ee-5605-4392-af15-297d2979b3f0-01693f017e/relevance/1
9	Membru Program Committee, IEEE 16th International Conference on Computer and Information Technology (CIT 2016)	10	https://www.webofscience.com/wos/woscc/summary/5852a31e-c889-4ec6-92e4-224141219c57-016938528c/relevance/1

10	Membru Program Committee, IEEE 14th Intl Conf on Dependable, Autonomic and Secure Computing (DASC 2016)	10	https://www.webofscience.com/wos/woscc/summary/3298023c-06bc-4a15-b970-4beb7f006ed8-01693883b4/relevance/1
11	Membru Program Committee, IEEE 16th International Conference on Evolvable Systems: From Biology to Hardware (ICES 2016)	10	https://www.webofscience.com/wos/woscc/summary/a7fcb743-7675-40a9-b423-2320ea0524dc-0169389123/relevance/1
12	Membru Program Committee, IEEE 17th International Conference on Computer and Information Technology (CIT 2017)	10	https://www.webofscience.com/wos/woscc/summary/811d31c1-d129-4738-9376-429dc2967b23-016938ca62/relevance/1
13	Membru Program Committee, 20th IEEE International Conference on High Performance Computing and Communications (HPCC 2018)	10	https://www.webofscience.com/wos/woscc/summary/44cf74c6-cab8-4e4c-a91a-2e1008de9af0-016938d594/relevance/1
14	Membru Program Committee, 23rd International Conference on System Theory, Control and Computing (ICSTCC 2019)	10	https://www.webofscience.com/wos/woscc/summary/ab1f0ef0-636c-4f85-b36b-9ce8443e218f-016938e32f/relevance/1
15	Membru Organizing Committee, IEEE 13th International Symposium on Applied Computational Intelligence and Informatics (SACI 2019)	10	https://www.webofscience.com/wos/woscc/summary/f0f9ad11-e41a-4eb7-96bc-99b82cb6090e-0169394b3c/relevance/1
16	Membru Program Committee, 22th IEEE International Conference on High Performance Computing and Communications (HPCC 2020)	10	https://www.webofscience.com/wos/woscc/summary/7d8945b6-4e50-4ab7-885f-8abd3d3bacb4-01693ac3eb/relevance/1
17	Membru Program Committee, 24rd International Conference on System Theory, Control and Computing (ICSTCC 2020)	10	https://www.webofscience.com/wos/woscc/summary/eb75dc6b-2bae-4850-b273-a69c620bcb09-01693a4472/relevance/1
18	Membru Program Committee, 10th IEEE International Conference on Sustainable Computing and Communications (SustainCom 2020)	10	https://www.webofscience.com/wos/woscc/summary/942c21c3-d4d2-4290-a1f2-170799150fa3-01693954f4/relevance/1
19	Membru Program Committee, 223th IEEE International Conference on High Performance Computing and Communications (HPCC 2021)	10	https://www.webofscience.com/wos/woscc/summary/fd7dfa57-2541-4169-a350-751faaf0622e-01693ad14c/relevance/1

20	Membru Program Committee, IEEE 20th International Conference on Computer and Information Technology (CIT 2021)	10	https://www.webofscience.com/wos/woscc/summary/0dd2c269-b2ef-4ef2-8811-412286cc100c-01693b9495/relevance/1
21	Membru Program Committee, 38th International Conference on Advanced Information Networking and Applications (AINA-2024)	10	https://www.webofscience.com/wos/woscc/summary/84ab6339-e712-4102-8a1c-5aac6b7b30f5-01693c27c4/relevance/1
22	Membru Program Committee, 29th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC 2024)	10	https://www.webofscience.com/wos/woscc/summary/a68b1c73-d0e4-43dc-9191-2555f7aa5c97-01693c5906/relevance/1
TOTAL		220	

A 3.3 Membru în comitetele de redacție sau comitetele științifice ale revistelor indexate BDI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internaționale indexate BDI

Nr. c	Activitatea	Punctaj	
1	Membru comitet de organizare si copresedinte sesiune speciala "Dependability Issues in Emerging Technologies", 3rd ACM Computing Frontiers Conference 2006	6	ACM
2	Workshop Chair si Session Chair, 4th ACM Computing Frontiers Conference 2007	6	ACM
3	Membru Program Committee, IEEE 11th International Conference on Computer and Information Technology (CIT 2011)	6	IEEE
TOTAL		18	

A3.4 Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaționale de prestigiu

Nr. Crt	Premiul	Autoritatea care acorda premiul	Punctaj
1	Teza de doctorat a anului 2006	ASTR filiala Timisoara	15
TOTAL			15