

Rezoluția

Comisiei de analiză a îndeplinirii standardelor minimale din fisa de verificare a candidaților înscriși la concursul pentru ocuparea posturilor didactice din Facultatea de Inginerie Electrică, în urma verificării documentelor înaintate, constată că: **conf. dr. ing. SZASZ Csaba** înscris la concurs pentru ocuparea postului de **Profesor, poziția 7, disciplinele: Analiza defectelor in sisteme electrice; Metodologii de concepie si dezvoltare a produselor; Proiectarea avansata a actionarilor electrice**, de la Departamentul de Mașini și Acționări Electrice, **îndeplinește standardele minimale** pentru ocuparea postului de **PROFESOR**.

OBSERVAȚII:

Cluj-Napoca, 25.07.2020

Presedinte: prof. dr.ing. Calin Gh. RUSU _____

Membri: prof. dr.ing. Lorand SZABO _____

prof. dr.ing. Radu A. MUNTEANU _____

conf. dr. ec. Anca CONSTANTINESCU _____

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE

Candidat Szász Csaba, pentru postul de Profesor, Poz. 7. Departamentul Mașini și Acționări
Electrice, Facultatea de Inginerie Electrică

1	Tipul activităților	Categoriile și restricții	Realizat	Punctaj	
2	3	4	5	6	
A1	1.1 Cărți și capitole în cărți de specialitate	1.1.1 Cărți cu ISBN/ capitole ca autor: Profesor minim 4;	1.1.1.1 internaționale - 2	136,5	
			1.1.1.2 naționale - 4	134,1	
	1.2 Suport didactic	1.2.1 Suport de curs inclusiv el Profesor minim 2 din care 1 ca prim autor; 1.2.2 Îndrumare de laborator/aplicații: pentru Profesor minim 2 din care minim 1 prim autor;	2	27,2	
			3	14,97	
TOTAL A1 (min. 120)				312,77	
A2	2.1 Articole în extenso în reviste cotate WOS Thomson-Reuters, în volume proceedings indexate WOS Thomson-Reuters	2.1.1 Profesor/CS I minim 10 articole din care minim 4 în reviste - 21 (5 în rev.)		328,858	
	2.2 Articole în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)	2.2.1 Profesor/CS I: minim 20 articole din care minim 5 în reviste - 27 (12 rev.)		363,98	
	2.3 Brevete de invenție indexate în alte baze de date	2.3.2 naționale - 1		3,75	
	2.4 Granturi/proiecte câștigate	2.4.1 Director/ Responsabil proiect partener: minim 2 pentru Profesor 2.4.2 Membru în echipă	2.4.1.2 naționale - 2		50
			2.4.2.1. internațional - 3		12
			2.4.2.2 naționale - 6		12
2.5 Contracte de cercetare/consultanță	2.5.2 Membru în ech. - 1			2	
TOTAL A2 (min. 360)				772,588	
A3	3.1 Citări în revistele WOS și volumele conferințelor WOS	3.1.1 Profesor/CS I: minim 10 citări din care minim 5 citări în reviste - 22 (12 în reviste)		60,14	
	3.2 Citări în revistele BDI și volumele conferințelor BDI	3.2.1 Profesor/CS I: minim 20 citări din care minim 10 citări în reviste - 41 (22 în reviste)		63	
	3.3 Prezentări invitate în plenumul unor manifestări științifice naționale și internaționale și Profesor invitat (excl. POS, ERAS)	3.3.1 internaționale - 6		120	
	3.4 Membru în colective de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale (punctajul se acordă pentru fiecare revistă, manifestare științifică și recenzie)	3.4.1 WOS - 1		10	
		3.4.2 BDI - 14		84	
		3.4.3 Internaționale neindexate - 2		6	
		3.5 Referent în comisii de doctorat (națion.) - 1		5	
	3.6 Premii	Premii internaționale - 1		10	
3.7 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării	3.7.4 Asociații profesionale	Internaționale - 1		5	
		Naționale - 1		2	
TOTAL A3 (min. 120)				365,14	
TOTAL (min. 600)				1450,49	

ANEXĂ

Nr. crt.	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori (k_p)
	1	2	3	4	5
1	Activitatea didactică/ profesională (A_1).	1.1 Cărți și capitole în cărți de specialitate	1.1.1 Cărți cu ISBN/ capitole ca autor: Profesor minim 4;	1.1.1.1 internaționale	nr. pagini/ (2*nr. autori)
				[1] Szász Csaba, (2010) - <i>Electrotechnics</i> , (Electrotechnics-Electronics Series- Part I.- 2010, Faculty of Engineering, University of Debrecen, ISBN 978-963-88614-7-4, 199, 140 pages, Debrecen University Press, Hungary.	140/2=70
				[2] Szász Csaba (2010) - <i>Electronics</i> , (Electrotechnics-Electronics Series- Part II.- 2010, Faculty of Engineering, University of Debrecen, ISBN 978-963-88614-9-8, 133 pages, Debrecen University Press, Hungary.	133/2=66,5
				1.1.1.2 naționale	nr. pagini/ (5*nr. autori)
				[3] Szász Csaba, (2004) - <i>Sisteme numerice de comandă și control a motoarelor pas cu pas</i> , Editura U.T.PRES, Cluj-Napoca 2004, ISBN 973-662-104-9, 202 pag. Editură recunoscută de CNC SIS.	202/5=40,4
				[4] Alexandru Morar, Szász Csaba, (2004) - <i>Motorul pas cu pas în acționari electrice</i> , Editura Univ. Petru Maior, Târgu-Mureș 2004, ISBN 973-8084-99-7, 312 pag. Editură recunoscută de CNC SIS.	312/10=31,2
		[5] Szász Csaba, (2005) - <i>Bazele sistemelor digitale</i> , Editura U.T. PRES, Cluj-Napoca 2005, ISBN 973-662-197-9, 199 pag.	199/5=39,8		
[6] Szász Csaba, Virgil Chindriș, (2009) - <i>Sisteme digitale de inspirație biologică</i> , Editura UTPRESS, Cluj-Napoca 2009, ISBN 978-973-662-453-7, 227 pag. Editură recunoscută de CNC SIS.	227/10=22,7 Lista publicatii Pag. 22-43				
		1.1.2 Cărți/ capitole de cărți ca editor/ coordonator	1.1.2.1 internaționale	nr. pagini/ (3*nr. autori)	
			1.1.2.2 naționale	nr. pagini/ (7*nr. autori)	
		1.2 Suport didactic	1.2.1 Suport de curs inclusiv electronic: Profesor minim 2 din care 1 ca prim autor;	[1] Szász Csaba, (2011) - <i>Sisteme numerice programabile</i> , Editura U.T. PRES, Cluj-Napoca 2011, ISBN 978-973-662-612-8, 151 pag.	nr. pagini/ (10*nr. autori)
			[2] Szász Csaba, (2012) - <i>Diagnoza defectelor în sisteme electrice și electronice</i> , Editura U.T. PRES, Cluj-Napoca 2012, ISBN 978-973-662-689-0, 124 pag.	151/10=15,1 121/10=12,1	

			1.2.2 Îndrumare de laborator/aplica- ții: pentru Profesor minim 2 din care minim 1 prim autor;	<p>[3] Szász Csaba, (2006) – <i>Sisteme numerice de comandă și control, aplicații</i>, Editura U.T. PRES, Cluj-Napoca 2006, ISBN(10) 973-662-274-6, ISBN(13) 978-973-662-274-8, 116 pag.</p> <p>[4] Szász Csaba, Virgil Chindriș, (2010) – <i>Arhitecturi programabile pentru sisteme numerice de control</i>, Editura UTPRESS, Cluj-Napoca 2010, ISBN 978-973-662-522-0, 248 pag.</p> <p>[5] Trifa V., Szász Cs., (1997) <i>Sisteme microprogramate</i>, Îndrumător de laborator, Editura UTCN, 1997. 127 pag.</p>	nr. pagini/ (20*nr. autori) 116/20=5,8 240/40=6 127/40=3,17
				TOTAL A1: (min 120)	312,77
2	Activitatea de cercetare (A ₂)	2.1 Articole în extenso în reviste cotate WOS Thomson- Reuters ⁽¹⁾ , în volume proceeding s indexate WOS Thomson- Reuters și brevete de inventie indexate WOS- Derwent	2.1.1 Profesor/CS I minim 10 articole din care minim 4 în reviste	<p>Reviste ISI:</p> <p>[1] G. Husi, Cs. Szász, V. H. Hashimoto (2014) <i>Application of reconfigurable hardware technology in the development and implementation of building automation systems</i>, Environmental Engineering and Management Journal, November 2014, Vol. 13, No. 11, PrintISSN: 1582-9596, eISSN: 1843-3707, http://omicron.ch.tuiasi/EEMJ, Impact factor: 1,186. WOS: 000343400600033.</p> <p>[2] L. Szabó, M. Ruba, Cs. Szász, V. Chindriș, G. Husi, (2013) – <i>Fault Tolerant Bio-inspired System Controlled Modular Switched Reluctance Machine</i>, Automatika – Journal for Control, Measurement, Electronics, Computing and Communications, Online ISSN: 1848-3380 Print ISSN: 0005-1144, DOI: 10.7305. Impact factor: 0.379. WOS: 000333500400006</p> <p>[3] Cs. Szász, V. Chindriș, G. Husi, (2010)- <i>Embryonic Systems Implementation with FPGA-based Artificial Cell Network Hardware Architectures</i>, Asian Journal of Control, Vol 12, No 2, FB-08-020R, pp. 1-8, March, 2010, Published in Wiley InterScience (www.interscience.wiley.com), DOI: 10.1002/asjc 166, IDS Number: 578CL. Impact factor: 2,005. WOS: 000276270900011</p> <p>[4] R. Sumi, Z. Néda, A. Tunyagi, Sz. Boda, Cs. Szász (2009) – <i>Nontrivial spontaneous synchronization</i>, Physical Review E, American Physical Society (APS), Volume 79, E79, PACS nr. 05.45.Xt, 89.75.Fb, ISSN: 056205, pp. 056205-1-9, published 6 May 2009,</p>	<p>(25+20*factor impact)/nr. de autori</p> <p>(25+20*1.186) /3=16.24</p> <p>(25+20*0.379) /5=6.516</p> <p>(25+20*2.005) /3=21.7</p> <p>(25+20*2.353) /5=14.412</p>

			<p>IDS Number: 451WE. <i>Impact factor: 2,353.</i> WOS: 000266500800026</p> <p>[5] Szász Cs., (2018) – <i>Reconfigurable Hardware Technology: an Emerging paradigm for Combined Software-Hardware Fault-tolerance Implementation</i>, Journal of Control Engineering and Applied Informatics, Vol. 20, No. 3 (2018) pp. 99-108, ISSN: 1454-8658, ISI <i>Impact factor: 0.583</i>, http://www.ceai.sraif.ro/index.php?journal=ceai&page=issue&op=current. WOS: 000447357200010</p> <p>Conferințe WOS:</p> <p>[6] Cs. Szász, É. Dulf (2015) <i>Fractional Fourier Transform: A novel Tool for Multimodal Communication Improvement of Pervasive Mobile Robots</i>, 10th Jubilee IEEE International Symposium on Applied Computational Intelligence and Informatics, May 21-23, 2015, Timisoara, ISBN: 978-1-4799-4694-5/15. pp. 153-160. WOS: 000380397800030</p> <p>[7] Cs. Szász, (2014)– <i>HVAC Elements Modeling and Implementation for Net-zero Energy Building Applications</i>, 9th IEEE International Symposium on Applied Computational Intelligence and Informatics, May 15-17, 2014, Timisoara, ISBN: 978-1-4799-4694-5/14. pp. 195-200. WOS: 000343400600033</p> <p>[8] Cs. Szász, G. Husi (2014) <i>The Intelligent Building Definition: A Central European Approach</i>, 2014 IEEE/SCIE International Symposium on System Integration, December 13-15, Tokyo, Japan, ISBN: 978-1-4799-6942-5, DOI: 10.1109/SII.2014.7028040, pp. 216-221. WOS: 000380475700038</p> <p>[9] Szász Cs., Cioloca A. (2013) – <i>Two-layer Coarse-fine-grid Network Model for Bio-inspired Computing Systems Development</i>, 17th International Conference on System Theory, Control and Computing – ICSTCC 2013, October 11-13, Sinaia, ISBN: 978-1-4799-2228-4/13\$31.00. WOS: 000330660500080</p> <p>[10] Szász Cs., Chindriș V., (2010) <i>Development of Hardware Redundant Embryonic Structure for High Reliability Control Applications</i> 12th International Conference on Optimization of Electrical and Electronic Equipment, May 20-21, OPTIM 2010 Brasov, Romania, ISSN: 1842-0133, ISBN: 978-973-131-080-0, IEEE 978-1-4244-7020-4, pp. 728-733. WOS: 000291967300104</p> <p>[11] Chindriș V., Szász Cs., (2011) – <i>Artificial Genes Implementation Upon</i></p>	<p>(25+20*0.583) /1=36.66</p> <p>(25+0)/2=12.5</p> <p>25</p> <p>12.5</p> <p>12.5</p> <p>12.5</p>
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			<p><i>FPGA-Based Embryonic Network</i>, 25th European Conference on Modeling and Simulation, ECMS-2011, Krakow, Poland, ISBN: 978-0-9564944-2-9, pp. 153-158. WOS: 000392767500023</p>	12.5
			<p>[12] Szász Cs., Czumbil L. (2008) – <i>Artificial Molecule Development Model for Genes Implementation in Bio-inspired Hardware Systems</i>, IEEE 11th International Conference on Optimization of Electrical and Electronic Equipment, May 22-24, 2008 Brasov, Romania, IEEE Catalog Number: 08EX1966C, Vol. 4, ISBN: 1-4244-1545-4, Library of the Congress: 2007905111. WOS: 00025847400003</p>	12.5
			<p>[13] Szász Cs., Chindriș V., (2010) – <i>Self-healing and Artificial Immune Properties implementation upon FPGA-based Embryonic Network</i>, 17th IEEE international Conference on Automation, Quality and Testing, Robotics AQTR 2010, May 28-30 2010, Cluj-Napoca, Romania, IEEE Catalog Number: CFP10AQT-PRT, ISBN: 978-1-4244-6722-8, pp. 170-175, , IEEE Xplore. WOS: 000419281500107</p>	12.5
			<p>[14] Szász Cs., Chindriș V., Szabó L., (2009) <i>Modeling and Simulation of Embryonic Hardware Structures Designed on FPGA/based Artificial Cell Network Topologies</i>, 23rd European Conference on Modeling and Simulation, ECMS 2009, June 9th – 12th, Madrid, Spain, ISBN: 0-9553018-8-2, 978-0-9553018-8-9, pp. 613-617, , IEEE Xplore. WOS: 000302016000090</p>	8.33
			<p>[15] Szász Cs., Chindriș V., (2009) <i>Fault-tolerance Implementation with Spare Cells in bio-inspired hardware Systems</i>, The 35th Annual Conference of the IEEE Industrial Electronics Society, 3-5 November, Porto, Portugal, DOI: 10.1109/IECON.2009.5415054, pp. 3329 – 3334, , IEEE Xplore. WOS: 000280762001155</p>	12.5
			<p>[16] Szász Cs., Chindriș V., (2008) – <i>Bio-inspired hardware systems development and implementation with FPGA-based artificial cell network</i>, 16th IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008, Cluj Napoca, Date: MAY 22-25, 2008 Vol I, Proceedings Pages: 109-114, , IEEE Xplore WOS: 000259079700015</p>	12.5
			<p>[17] Szász Cs., Chindriș V., (2008) - <i>Communication Strategy and Fault-tolerance Abilities Development in Bio-inspired hardware Systems with FPGA-based Artificial cell network</i>, IEEE 11th International Conference on Optimization</p>	12.5

			<p>of Electrical and Electronic Equipment, May 22-24, 2008 Brasov, Romania, IEEE Catalog Number: 08EX1966C, Vol. 4, ISBN: 1-4244-1545-4, Library of the Congress: 2007905111, , IEEE Xplore WOS: 000258474700002</p> <p>[18] Szász Cs., Chindris V., (2007) - <i>Development Strategy and Implementation of a Generalized Model for FPGA-based Artificial Cell in Bio-inspired Hardware Systems</i>, 5th IEEE International Conference on Industrial Informatics, July 23-27, Vienna, Austria, IEEE Catalog Number: 07EX1642, ISBN: 1-4244-0864-4, ISSN: 1935-4576, Vol. 2, pp. 639-643, , IEEE Xplore WOS: 0002523729000108</p> <p>[19] Szász Cs., (2007) - <i>Fuzzy Strategy-based Position Control of Field-oriented PM-hybrid Stepping Motor</i>, IEEE International Conference on Fuzzy Systems, FUZZ-IEEE2007, 32-26 July, London, United Kingdom, IEEE Catalog Number: 07CH37904C, ISBN: 1-4244-1210-2, ISSN: 1098-7584, pp. 951-955, , IEEE Xplore WOS: 000252371500165</p> <p>[20] Szász Cs., (2007) - <i>Development Strategy of Next Generation Single-chip Smart Inverters for Motor Control Applications</i>, 15th IEEE Mediterranean Conference on Control and Automation, June 27-29, Athens, Greece, ISBN: 978-96-0254-664-2, Poster Session FrP T-28, pp. 109, (Conference official CD-ROM registration), , IEEE Xplore WOS: 0002527100800239</p> <p>[21] Szász Cs., Chindris V., (2007) - <i>Artificial Life and Communication Strategy in Bio-inspired Hardware Systems with FPGA-based Cell Networks</i>, 11th IEEE International Conference on Intelligent Systems, 29 June 1 July, Budapest Hungary, IEEE Catalog Number: 07EX1751C, ISBN: 1-4244-1148-3, pp. 77-82, IEEE Xplore. WOS: 000250359600014</p>	<p>12.5</p> <p>25</p> <p>25</p> <p>12.5</p>
	<p>2.2 Articole în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI⁽³⁾)</p>	<p>2.2.1 Profesor/CS I: minim 20 articole din care minim 5 în reviste</p>	<p>Reviste:</p> <p>[1] Szász Cs., (2017) <i>DNA Processing and Reassembly on General Purpose FPGA-based Development Board</i>, Journal of Electrical and Electronics Engineering, Vol. 10, nr. 1, (May 2017), pp. 67-72, P-ISSN: 1844-6035, Indexed Scopus.</p> <p>[2] R. Sinca, Szász Cs., (2017) – <i>High-reliability electronic systems Development and Implementation for Safety Applications</i>, Journal of Electrical and Electronics Engineering, Vol. 10, nr. 1, (May 2017), pp. 73-78, ISSN: 1844-6035, Indexed Scopus.</p>	<p>20/nr. de autori</p> <p>20</p> <p>10</p>

			<p>[3] É. Dulf, F. Dulf, Cs. Szász, (2011) . <i>Fractional Model of the (13C) Isotope Separation Column</i>, Chemicke Listy, 2011. ISSN: 0009-2770, 105, s871 s1072, p892. (Impact factor 2019 = 0.3). http://www.chemicke-listy.cz/docs/full/2011_18_s871-s1072.pdf.</p>	6.66
			<p>[4] Szász Cs., R. Sinca, (2017) <i>Synchronization Strategy in Complex Digital Voter-based System</i>, Journal of Electrical and Electronics Engineering, Vol. 10, nr. 2, (October 2017), pp. 55-60, P-ISSN: 1844-6035, Indexed Scopus.</p>	10
			<p>[5] Szász Cs., (2018) – <i>Analysis of Photovoltaic Modules Energy Efficiency in LabView Simulation Environment</i>, Journal of Electrical and Electronics Engineering, Vol. 11, nr. 2, (Oct 2018), pp. 31-36, P-ISSN: 1844-6035, Indexed Scopus.</p>	20
			<p>[6] Szász Cs., R. Sinca, (2019) <i>The Nontrivial Problem of Matching in Redundant Digital Systems</i>, Journal of Electrical and Electronics Engineering, Vol. 12, nr. 1, (May 2019), pp. 51-56, ISSN: 1844-6035, Indexed Scopus.</p>	10
			<p>[7] Szász Cs., (2017) – <i>Reconfigurable electronics Application in Intelligent Space Developments</i>, International Review of Applied Sciences and Engineering, Akadémiai Kiadó, Budapest, Int.Rev.Sci.Eng., Vol. 8, Issue 2, (December 2017), pp. 107-111, DOI: 10.1556/1849.2017/8.1.2, ISSN: 2062-0810, www.akademiai.com, Indexed Scopus.</p>	20
			<p>[8] Szász Cs., (2017) <i>Three-dimensional Artificial Organism Model Developed upon a Two-layer Coarse-fine-grid Network Approach</i>, International Review of Applied Sciences and Engineering, Akadémiai Kiadó, Budapest, Int.Rev.Sci.Eng., Vol. 8, Issue 2, (December 2017), pp. 127-133, DOI: 10.1556/1849.2017/8.1.2, ISSN: 2062-0810, www.akademiai.com, Indexed Scopus.</p>	20
			<p>[9] Szász Cs., (2019) – <i>Solar Tracker Platform Development for Energy Efficiency Improvement of Photovoltaic Panels</i>, International Review of Applied Sciences and Engineering, Akadémiai Kiadó, Budapest, Int.Rev.Sci.Eng., Vol. 10, Issue 3, (December 2019), pp. 267-273, DOI: 10.1556/1848.2019.0031,</p>	20

			<p>https://akjournals.com/view/journals/1848/10/3/article-p267.xml, Indexed Scopus.</p>	
			<p>[10] Szász Cs., (2020) – <i>Modeling and Simulation of FPGA-based Redundant Systems</i>, International Review of Applied Sciences and Engineering, Akadémiai Kiadó, Budapest, Int.Rev.Sci.Eng., Accepted for publication, Indexed Scopus.</p>	20
			<p>[11] Szász Cs., (2020) – <i>Cyber-physical Platform Development and Implementation for Industry 4.0</i>, International Review of Applied Sciences and Engineering, Akadémiai Kiadó, Budapest, Int.Rev.Sci.Eng, Accepted for publication, Indexed Scopus.</p>	20
			<p>[12] R. Sinca, Cs. Szász, (2017) – <i>Fault-tolerant digital systems development using triple modular redundancy</i>, International Review of Applied Sciences and Engineering, Akadémiai Kiadó, Budapest, Int.Rev.Sci.Eng., Vol. 8, Issue 1, (2017), pp. 1-7, DOI: 10.1556/1849.2017/8.1.2, ISSN: 2062-0810, www.akademiai.com, Indexed Scopus.</p>	10
			<p>Conferințe indexate BDI:</p>	
			<p>[13] Szász Cs., Chindriș V. (2009) <i>Self-healing and Fault-tolerance Abilities Development in Embryonic systems implemented with FPGA-based hardware</i>, IEEE 13th International Conference on Intelligent Engineering Systems, April 16-18, 2009 Barbados, IEEE Catalog Number: CFP09IES-CDR, ISBN: 978-1-4244-4113-6, Library of the Congress: 2009901330, pp. 215-220, IEEE Xplore.</p>	10
			<p>[14] Szász Cs., Chindris V., Czumbil L. (2008) <i>Network Communication Strategy in Embryonic Systems with FPGA-based Hardware</i>, IEEE SMC International Conference on Distributed Human-Machine Systems, March 9-12, 2008 Athens, Greece, ISBN 978-80-01-04028-7, pp. 468-473, 2008, IEEE Xplore.</p>	6.66
			<p>[15] Szász Cs., Chindriș V., (2010) <i>Self-organizing and Fault-tolerant Behaviors Approach in Bio-inspired Hardware Redundant Network Structures</i>, IEEE 14th International Conference on Intelligent Engineering Systems, May 5-7, 2009 Las Palmas of Gran Canaria, IEEE Catalog Number: CFP10IES-CDR, ISBN: 978-1-4244-7651-6, pp. 37-42, , IEEE Xplore.</p>	10

			<p>[16] Chindriş V., Szász Cs., (2011) – <i>Bio-inspired Parallel Computing Structures for High Reliability Servomotor Control Applications</i>, Proceedings of the 10th International Symposium on Parallel and Distributed Computing (ISPDC'2011), Cluj, pp. 270-273, 2011, IEEE Xplore.</p>	10
			<p>[17] Szász Cs. (2013) <i>Enhancing the NI-9631 Mobile Robot Abilities with Multimodal Communication Skills</i>, IEEE 17th International Conference on Intelligent Engineering Systems, June 19-21, 2013 Costa Rica, Print ISBN: 978-1-4799-0828-8, DOI: 10.1109/INES.2013.6632799, pp. 145-150, , IEEE Xplore.</p>	20
			<p>[18] Cs. Szász, G, Husi (2013)– <i>Novel Multimodal Communication Skills Implementation on the NI-9631 Robot</i>, The 39th Annual Conference of the IEEE industrial Electronics Society, 10-13 of November, Vienna, Austria, SS58-1, ISBN: 978-1-4799-0224-8/13, pp. 7837-7842, , IEEE Xplore.</p>	20
			<p>[19] Cs. Szász, (2015) – <i>Symbolic Cognitive Abilities Implementation on the NI-9631 pervasive Mobile Robot</i>, 6th IEEE International Conference on Cognitive Infocommunications, October 19-21, Győr, Hungary, ISBN: 978-1-4673-8128-4, IEEE Catalog Number: CFP1526R-USB, pp. 11 15, , IEEE Xplore.</p>	20
			<p>[20] Cs. Szász, (2015) <i>Applied Informatics: A Paradigm Shift in Artificial Embryonic Systems Development</i>, 16th IEEE International Symposium on Computational Intelligence and Informatics, November 19-21, Budapest, Hungary, ISBN: <u>978-1-4673-8520-6/15/\$31.00@2015</u> IEEE plore, pp. 171-176, , IEEE Xplore.</p>	20
			<p>[21] Cs. Szász, É. Dulf (2016) – <i>Mathematical Model Development for Faults Simulation in Current-source PWM Inverters</i>, 11th IEEE International Symposium on Applied Computational Intelligence and Informatics, May 12-14, 2016, Timisoara, ISBN: 978-1-5090-2380-6/16. pp. 203-208, , IEEE Xplore.</p>	10
			<p>[22] Cs. Szász, É. Dulf (2016) – <i>Comparison Between Fractional Order Controller and a Robust H2 Controller performance in a Stepper Motor Drive Application</i>, 20th IEEE International Conference on Intelligent Engineering</p>	10

			System, June 30-July 2, 2016, Budapest, ISBN: 978-1-4244-4113-6, , IEEE Xplore.	
			[23] Szász Cs., Marschalko R., Trifa V., Székely A., (1998) - <i>Data acquisition and signal processing in vector control of PM-hybrid stepping motor</i> . Proceedings of 6-th OPTIM'98 International Conference, Braşov, DOI: 10.1109/OPTIM.1998.707973, pp. 447-450.	6.66
			[24] Trifa V., Marschalko R., Székely A., Szász Cs., Gălăţuş R., (1998) - <i>Investigation of a four phase switched reluctance motor supplied from a PWM inverter</i> . Proceedings of 6-th OPTIM'98 International Conference, Braşov, DOI: 10.1109/OPTIM.1998.707953, pp. 341-344.	4
			[25] Szász Cs., Chindriş V., (2009) <i>Fault-tolerance Properties and Self-healing Abilities Implementation in FPGA-based Embryonic Systems</i> , 6 th IEEE International Conference on Industrial Informatics, INDIN 2009, 24-26 th June 2009, Cardiff, UK, pp. TO7B-1, CF-000051. WOS:	10
			[26] Szász Cs., R. Sinca (2019) – <i>Transient Phenomena and Failures Analysis in Redundant Power Systems</i> , 8 th International Conference on Modern Power Systems, Cluj-N, 21-23 May 2019, pp 1-6, DOI: 10.1109/MPS.2019.8759729, INSPEC Accession Number: 18821816, https://ieeexplore.ieee.org/xpl/conhome/8753820/proceeding . Indexed in IEEE Xplore, ISI Indexed.	10
			[27] R. Sinca, Cs. Szász, (2019) <i>Software Redundancy Implementation Strategy in Hardware Reconfigurable Framework</i> , 8 th International Conference on Modern Power Systems ,21-23 Cluj-N, May 2019, pp 1-6, DOI: 10.1109/MPS.2019.8759719, INSPEC Accession Number: 18821829, https://ieeexplore.ieee.org/xpl/conhome/8753820/proceeding . Indexed in IEEE Xplore, ISI Indexed.	10
		2.3 Brevete de invenție indexate în alte baze de date	2.3.1 internaționale	25/nr. de autori
			2.3.2 naționale	15/nr. de autori
			[1] Trifa V., Marschalko R., Szász Cs., Székely A., (2003) <i>Method and current-source electronic circuit for stepping motors supply (Procedeu și circuit electronic sursă de curent pentru alimentarea motoarelor pas cu pas)</i> . National patent, RO 118512 B1, 10	3.75

			pages, 2003.	
2.4 Granturi/proiecte câștigate prin competiție internațională	2.4.1 Director/Responsabil proiect partener: minim 2 pentru Profesor	2.4.1.1. internaționale		20*ani de desfășurare
		2.4.1.2 naționale	<p>1. <i>Cercetări teoretice și experimentale privind implementarea proprietăților de toleranță la defecte și auto-organizare în sistemele digitale și analogice de inspirație biologică.</i> Proiect de cercetare CNCSIS, Cod CNSIS 1571, Grant de tip A, Faza 2007-2008, Valoare faza: 49.000 RON, Director de proiect: Szász Cs.</p> <p>2. <i>Echipamente tolerante la defecte controlate prin arhitecturi de inspirație biologică.</i> proiect de cercetare CNMPI2-Parteneriate, Acronim: <i>EIBioArch</i>, Contract Nr. 12121/2008, Faza 2008-2010, Valoare totală: 1.875.000 RON, Director de proiect: Szász Cs.</p>	<p>10*ani de desfășurare</p> <p>10*2=20</p> <p>10*3=30</p> <p>Lista publicatii Pag. 44-50</p>
	2.4.2 Membru în echipă	2.4.2.1. internaționale	<p>1. <i>Mașini cu reluctanță variabilă de performanțe îmbunătățite destinate aplicațiilor din procese critice.</i> Contract de colaborare științifică și tehnologică bilaterală româno-slovacă dintre Universitatea din Zilina (Republica Slovacă) și Universitatea Tehnică din Cluj-Napoca (Romania). Finanțatori Ministerele Educației din România și Republica Slovacă, 2011-2012, contract integrat în programul CAPACITĂȚI modulul III. Contract nr. 472/07.03.2011.</p> <p>2. <i>HuComTech project Human-Machine the Theoretical Fundamentals of Human-Computer Interaction Technologies, Faculty of Engineering, University of Debrecen, Department of Electrical Engineering and Mechatronics, 2011-2012.</i> Research supported through by the HuComTech TÁMOP 4.2.2-08/1/2008-0009 project, founded by the European Union, the European Regional Development Fund, and the European Social Fund. The granted amount is 282.458.349 HUF supported by the sEuropean Union and the Hungarian Government.</p> <p>3. <i>DENzero (Debrecen Egyetem Net-zero Energy Buildings) project, Faculty of Engineering, University of Debrecen,</i></p>	<p>4*ani de desfășurare</p> <p>4*1=4</p> <p>4*1=4</p> <p>Lista publicatii Pag. 44-50</p>

				<p><i>Department of Electrical Engineering and Mechatronics, 2013.</i> TÁMOP-4.2.2.A-11/1/KONV-2012-0041 project. The project is co-financed by the European Union and the European Social Fund.</p>	4*1=4
				<p>2.4.2. naționale</p> <p>1. <i>Cercetarea și dezvoltarea unui sistem de poziționare cu motor pas cu pas hibrid modularizat. Faza 1: proiectarea și execuția motorului pas cu pas.</i> Proiect de cercetare cu Ministerul Cercetării și tehnologiei (MCT). Trifa V. – director de proiect, Marschalko R., Székely A., Szász Cs. Predat 1995.</p>	2*ani de desfășurare 2*1=2
				<p>2. <i>Cercetarea și dezvoltarea unui sistem de poziționare bazat pe un servomotor cu reluctanță autocomutat. Faza 1: Proiectarea și execuția servomotorului cu reluctanță autocomutat.</i> Proiect de cercetare CNCSU. Trifa V. – director de proiect, Marschalko R., Székely A., Szász Cs. Predat 1995.</p>	2*1=2
				<p>3. <i>Cercetarea și dezvoltarea unui sistem de poziționare bazat pe un servomotor cu reluctanță autocomutat. Faza 2:Proiectarea și realizarea invertorului PWM pentru alimentarea servomotorului.</i> Proiect de cercetare CNCSU. Trifa V. – director de proiect, Marschalko R., Székely A., Szász Cs. Predat 1996.</p>	2*1=2
				<p>4. <i>Convertor ecologic ac/cc cu modularea în durată a impulsurilor (0-3kW). Faza 1: proiectarea și experimentarea modului electronic de putere de 250W.</i> Proiect de cercetare CNCSU. Trifa V. – director de proiect, Marschalko R., Székely A., Szász Cs. Predat 1996.</p>	2*1=2
				<p>5. <i>Cercetarea și implementarea unor preconvertoare de ca/cc cu corectarea factorului de putere și a unor convertoare de cc/cc cu parametrii energetici ridicați. Faza 1: Cercetări prin modulare, simulare și experimentare privind circuite electronice de putere de conversie noi, cu performanțe energetice ridicate.</i> Proiect de cercetare CNCSIS. Contract 33830/1999, Tema nr. 55, Cod CNCSIS 625, Valoare faza 17.500 mii lei, Marschalko R. –</p>	2*1=2

				<p>director de proiect, Szász Cs. Predat 1999.</p> <p>6. Cercetarea și implementarea unor preconvertoare de ca/cc cu corectarea factorului de putere și a unor convertoare de cc/cc cu parametrii energetici ridicați. Faza 2: Cercetări privind strategiile de comandă și reglare adecvate circuitelor electronice d e conversie propuse, testarea și implementarea acestora. Proiect de cercetare CNC SIS, Contract 37118/2000, Tema nr. 46, Cod CNSIS 626, Valoare faza: 30.000 mii lei. Marschalko R. – director de proiect, Szász Cs., Bojan M., Hedesiu C., Keul Ch. Predat 2000.</p>	2*1=2
		2.5 Contracte de cercetare/c onșultanță (valoare echivalentă de minim 2000 Euro)	2.5.1 Director/ Responsabil proiect partener 2.5.2 Membru în echipă		5*ani de desfășurare
				1. Echipament de comandă și poziționare a sistemului de antenă. Proiect de cercetare nr. 28/11.04.1995, Beneficiar: Institutul de Marina din Constanta. Trifa V. – director de proiect, Marschalko R., Szekely A., Szász Cs. Predat 1995.	2*ani de desfășurare 2*1=2
				TOTAL A2: (min 360)	772,588
3	Recunoașterea și impactul activității (A ₃)	3.1 Citări în revistele WOS și volumele conferințelor WOS ⁽⁴⁾	3.1.1 Profesor/CS I: minim 10 citări din care minim 5 citări în reviste 3.1.2 Conferențiar/CS II: minim 7 citări din care minim 2 citări în reviste	<p>Reviste:</p> <p>Cs. Szász, (2014)– <i>HVAC Elements Modeling and Implementation for Net-zero Energy Building Applications</i>, 9th IEEE International Symposium on Applied Computational Intelligence and Informatics, May 15-17, 2014, Timisoara, ISBN: 978-1-4799-4694-5/14. pp. 195-200.</p> <p>Cited by:</p> <p>1. Cao, Yue; Magerko, John A., III; Navidi, Thomas; et al.(2016) - , Power Electronics Implementation of Dynamic Thermal Inertia to Offset Stochastic Solar Resources in Low-Energy Buildings, IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS Volume: 4 Issue: 4 Special Issue: SI Pages: 1430-1441 Published: DEC 2016</p>	5/nr. autori ai articolului citat 5

				<p>Szász Cs., Chindris V., (2010) <i>Self-healing and Artificial Immune Properties implementation upon FPGA-based Embryonic Network</i>, 17th IEEE international Conference on Automation, Quality and Testing, Robotics AQTR 2010, May 28-30 2010, Cluj-Napoca, Romania, IEEE Catalog Number: CFP10AQTR-PRT, ISBN: 978-1-4244-6722-8, pp. 170-175.</p> <p>Cited by:</p> <p>2. R. Frei, R. McWilliam, B. Derrich, A. Puris, A. Tiwari, G. Di Mazo (2013) – <i>Self-healing and self-repairing technologies</i>, The International Journal of Advanced Manufacturing Technology, DOI: 10.1007/s00170-013-5070-2, June, 2013., Impact factor 2010: 1.068, ISSN: 0268-3768 (Print) 1433-3015 (Online), http://link.springer.com/article/10.1007/s00170-013-5070-2</p> <p>Trifa V., Marschalko R., Székely A., Szász Cs., (1998) - <i>Investigation of a four phase switched reluctance motor supplied from a PWM inverter</i>. Proceedings of 6-th OPTIM'98 International Conference.</p> <p>Cited by:</p> <p>3. Forrai A., Ueda T., Yumura T., (2005) - <i>A simple approach to electromagnetic actuator control based on asymptotically exact linearization</i>, Archive of Applied Mechanics Journal, June 2005, Volume 74, Issue 8, pp 550-562. ISSN: 0939-1533 (Print) 1432-0681 (Online), Impact factor: 1.103 http://link.springer.com/article/10.1007/s00419-005-0371-z?LI=true http://link.springer.com/journal/419/74/8</p> <p>Szász Cs., (2007) - <i>Development Strategy of Next Generation Single-chip Smart Inverters for Motor Control Applications</i>, 15th IEEE Mediterranean Conference on Control and Automation, June 27-29, Athens, Greece, ISBN: 978-96-0254-664-2, Poster Session FrP T-28, pp. 109, (Conference official CD-ROM registration).</p> <p>Cited by:</p> <p>4. Kenichi HATASAKO Tetsuya NITTA Masami IIANE Shigeto MAEGAWA, (2014) - <i>Past and Future</i></p>	<p>2.5</p> <p>1.25</p>
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				<p><i>Technology for Mixed Signal LSI</i>, IEICE TRANSACTIONS on Electronics Vol.E97-C No.4 pp.238-244, Publication Date: 2014/04/01, Online ISSN: 1745-1353 Type of Manuscript: INVITED PAPER (Special Section on Solid-State Circuit Design,---Architecture, Circuit, Device and Design Methodology), Indexed in: WOS, ISI Alerting Services,</p>	5
				<p>5. Chanin Wongyai and Pradondet Nilagupta (2016), - <i>Distributed Reconfiguration Algorithm for Self-Repairing in Cell-Based Architecture</i>, International Journal of Information and Electronics Engineering, Vol. 6, No. 4, July 2016, DOI: 10.18178/ijee.2016.6.4.632, pp. 238-246, http://www.ijee.org/vol6/632-II241.pdf</p> <p>Káptalan E., Szabó L., <i>Szász Cs.</i>, Néda Z. (2011) - <i>Collective Behavior - A General Survey</i>, Journal of Computer Science and Control Systems, Vol 4, Nr. 1., ISSN: 1844-6043, pp. 53-60, 2011.</p> <p>Cited by:</p> <p>6. B. Sokolov, D. Verzhilin, Tatiana Maximova, Irina Sokolova, (2017) "Dynamic Models of Self-organization Through Mass Behavior in Society", <i>Proceedings of the Second International Scientific Conference "Intelligent Information Technologies for Industry" (ITI'17) pp 114-123</i>, Springer series Advances in Intelligent and Computing. Indexed by Thomson ISI, SCOPUS and DBLP.</p> <p>R. Sinca, Cs. <i>Szász</i>, (2017) - <i>Fault-tolerant digital systems development using triple modular redundancy</i>, International Review of Applied Sciences and Engineering, Akadémiai Kiadó, Budapest, Int.Rev.Sci.Eng., Vol. 8, Issue 1, (2017), pp. 1-7, DOI: 10.1556/1849.2017/8.1.2, ISSN: 2062-0810, www.akademiai.com, Budapest, Hungary.</p> <p>Cited by:</p> <p>7. Fan, H.; Wang, H.; Li, Y. Data-Driven Packet Loss Estimation for Node Healthy Sensing in Decentralized Cluster. <i>Sensors</i> 2018, <i>18</i>, 320.</p>	5
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				<p>https://doi.org/10.3390/s18020320. Indexed by Thomson ISI, SCOPUS, Inspec, EI Compendex</p>	2.5
				<p>8. Ahmed Amin, K. Mahmood-ul-Hasan, (2019) – <i>Hybrid fault tolerant control for air-fuel ratio control of internal combustion gasoline engine using Kalman filters with advanced redundancy</i>, Journal of Measurement and Control, April 2019, https://doi.org/10.1177/0020294019842593, Impact factor: 0.878, (indexed in : Scopus, Elsevier: Engineering Village, Web of Science, Inspec, Compendex), https://journals.sagepub.com/doi/full/10.1177/0020294019842593#i101</p>	2.5
				<p>9. Ahmed Amin, K. Mahmood-ul-Hasan, (2019) – <i>Advanced fault tolerant air-fuel ratio control of internal combustion gas engine for sensor and actuator faults</i>, Published in: IEEE Access (Volume: 7), Page(s): 17634 – 17643, Date of Publication: 06 February 2019, Electronic ISSN: 2169-3536, INSPEC Accession Number: 18453738, DOI: 10.1109/ACCESS.2019.2894796, https://ieeexplore.ieee.org/abstract/document/8636513</p>	2.5
				<p>10. Ahmed Amin, K. Mahmood-ul-Hasan, (2019) A review of fault tolerant control systems: Advancements and applications, Measurement Journal, Elsevier, Vol. 143, September 2019, Pages 58-68, https://doi.org/10.1016/j.measurement.2019.04.083, Impact factor 2.218, https://www.sciencedirect.com/journal/measurement</p>	2.5
				<p>Szász Cs., (2017) <i>Optimal Control of Photovoltaic Modules Energy Efficiency</i>, Journal of Computer Science and Control Systems, Vol. 10. Nr. 1, May 2017, pp. 29-43, P-ISSN: 1844-6043.</p>	
				<p>Cited by:</p>	
				<p>11. I.Bodnár, (2018) – <i>Determination of temperature coefficient and transient electrical characteristics of a cooled and non-cooled solar module</i>, Published in: Acta</p>	5

				<p>Polytechnica Hungarica, Vol 15, No. 4, pp. 59-82, Impact factor: 0.909, http://uni-obuda.hu/journal/Bodnar_83.pdf</p> <p>Szabó, M. Ruba, Cs. Szász, V. Chindriş, G. Husi, (2013) – <i>Fault Tolerant Bio-inspired System Controlled Modular Switched Reluctance Machine</i>, <i>Automatika – Journal for Control, Measurement, Electronics, Computing and Communications</i>, Online ISSN: 1848-3380 Print ISSN: 0005-1144, DOI: 10.7305. <i>Impact Factor 2012: 0.349</i></p> <p>Cited by:</p> <p>12. Zhao, H.; Yao, R.; Xu, L.; Yuan, Y.; Li, G.; Deng, W. Study on a Novel Fault Damage Degree Identification Method Using High-Order Differential Mathematical Morphology Gradient Spectrum Entropy. <i>Entropy</i> 2018, <i>20</i>, 682. Impact factor: 2.305. https://www.mdpi.com/1099-4300/20/9/682 https://doi.org/10.3390/e20090682</p> <p>Conferințe:</p> <p>Cs. Szász, V. Chindriş, G. Husi, (2010)- <i>Embryonic Systems Implementation with FPGA-based Artificial Cell Network Hardware Architectures</i>, <i>Asian Journal of Control</i>, Vol 12, No 2, FB-08-020R, pp. 1-8, March, 2010, Published in Wiley InterScience (www.interscience.wiley.com), DOI: 10.1002/asjc.166, IDS Number: 578CL. <i>Impact factor 2010: 0.56.</i></p> <p>Cited by:</p> <p>13. Wang Nantian ; Qian Yanling ; Li Yue ; Zhuo Qingqi ; Li Tingpeng (2013) - <i>Survey on evolvable hardware and embryonic hardware</i>, 11th IEEE International Conference on Electronic Measurement & Instruments (ICEMI), 16-19 Aug. 2013, Date Added to IEEE Xplore: 20 February 2014, INSPEC Accession Number: 14116705, DOI: 10.1109/ICEMI.2013.6743207, Publisher: IEEE, http://ieeexplore.ieee.org/document/6743207/</p> <p>14. Gayatri Malhotra ; Nagalakshmi A M ; Sudhakar S ; Subramanya Udupa (2014) - <i>An architecture of sequential embryonic cell for counter design</i>, Published in: 2014 International</p>	<p>1</p> <p>1.66</p>
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				<p>Symposium on Fundamentals of Electrical Engineering (ISFEE), Date of Conference: 28-29 Nov. 2014, Date Added to IEEE <i>Xplore</i>: 02 March 2015, INSPEC Accession Number: 14949288, DOI: 10.1109/ISFEE.2014.7050624, Publisher: IEEE http://ieeexplore.ieee.org/document/7050624/</p>	1.66
				<p>15. Zhang Z., et al. (2018) <i>Self-healing strategy for transient fault cell reutilization of embryonic array circuit</i>, IEEE NASA/ESA Conference on Adaptive Hardware and Systems, INSPEC Accession Number: 18274255, DOI: 10.1109/AHS.2018.8541472, https://ieeexplore.ieee.org/document/8541472</p> <p>Szász Cs., Chindriş V., (2010) – <i>Development of Hardware Redundant Embryonic Structure for High Reliability Control Applications</i> 12th International Conference on Optimization of Electrical and Electronic Equipment, May 20-21, OPTIM 2010 Brasov, Romania, ISSN: 1842-0133, ISBN: 978-973-131-080-0, IEEE 978-1-4244-7020-4, pp. 728-733.</p> <p>Cited by:</p>	1.66
				<p>16. <u>Zhuo Qingqi, Qian Yanling, Li Yue, Wang Nantian, Li Tingpeng</u>. (2013) – <i>Embryonic electronics: State of the art and future perspective</i>, 11th IEEE International Conference on <u>Electronic Measurement & Instruments (ICEMI), 2013</u>, 16-19 Aug. 2013 Date Added to IEEE <i>Xplore</i>: 20 February 2014 ISBN Information: INSPEC Accession Number: 14116562 DOI: 10.1109/ICEMI.2013.6743098, pp. 140-146. http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=6743098</p>	2.5
				<p>17. Zhai Zhang; Youren Wang, (2014) - Method to self-repairing reconfiguration strategy selection of embryonic cellular array on reliability analysis, Published in: <u>Conference on Adaptive Hardware and Systems (AHS), 2014 NASA/ESA</u>, 14-17 July 2014, Date Added to IEEE <i>Xplore</i>: 21 August 2014, Electronic ISBN: 978-1-4799-5356-1, INSPEC Accession Number: 14529018, DOI: 10.1109/AHS.2014.6880181 http://ieeexplore.ieee.org/document/6880181</p>	2.5

				<p><u>0181/</u></p> <p>Szász Cs., Chindris V., (2007) - <i>Development Strategy and Implementation of a Generalized Model for FPGA-based Artificial Cell in Bio-inspired Hardware Systems</i>, 5th IEEE International Conference on Industrial Informatics, July 23-27, Vienna, Austria, IEEE Catalog Number: 07EX1642, ISBN: 1-4244-0864-4, ISSN: 1935-4576, Vol. 2, pp. 639-643.</p> <p>Cited by:</p> <p>18. Zhuo Qingqi, Qian Yanling, Li Yue, Wang Nantian, Li Tingpeng (2013) - <i>Embryonic Electronics: State of the Art and Future Perspective</i>, The 11th IEEE International Conference on Electronic Measurement & Instruments ICEMI'2013, Date Added to IEEE Xplore: 20 February 2014, Date of Conference: 16-19 Aug. 2013, INSPEC Accession Number: 14116562, ISBN: 978-1-4799-0759-5 /13/\$31.00 ©2013 IEEE, DOI: 10.1109/ICEMI.2013.6743098, Publisher: IEEE, http://ieeexplore.ieee.org/document/6743098/?arnumber=6743098&tag=1</p> <p>19. C. Wongyai and P. Nilagupta (2016), - <i>Distributed Reconfiguration Algorithm for Self-Repairing in Cell-Based Architecture</i> International Journal of Information and Electronics Engineering, Vol. 6, No. 4, July 2016. DOI: 10.18178/ijiee.2016.6.4.632, pp. 238-246, Indexed in: Engineering Village, IET INSPEC, http://www.ijee.org/vol6/632-JI241.pdf</p> <p>20. Wongyai, Chanin; Nilagupta, Pradondet, (2014) - <i>Improving Reliability in Cell-based Evolve Hardware Architecture using Fault Tolerance Control</i>, Book Group Author(s): IEEE, Conference: 4th IEEE International Conference on Control System Computing and Engineering (ICCSCE 2014) Location: Batu Ferringhi, MALAYSIA Date: NOV 28-30, Sponsor(s): IEEE; IEEE Malaysia Sect; IEEE CSS Chapter Malaysia; Univ Teknologi Mara, 2014 Pages: 190-195, https://apps.webofknowledge.com/fullrecord.do?product=WOS&search_mode=CitingArticles&qid=15&SID=X2wKaFPNhAI3Yny8IZl&page=1&doc=1</p>	<p>2.5</p> <p>2.5</p> <p>2.5</p>
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			<p>Szász Cs., (2017) – <i>Optimal Control of Photovoltaic Modules Energy Efficiency</i>, Journal of Computer Science and Control Systems, Vol. 10. Nr. 1, May 2017, pp. 29-43, P-ISSN: 1844-6043.</p> <p>21. I.Bodnár, D. Koós, (2018) – <i>Determination of temperature coefficient and transient electrical characteristics of a cooled and non-cooled solar module</i>, 2018 19th IEEE International Carpathian Control Conference (ICCC), Date of Conference: 28-31 May 2018, Date Added to IEEE Xplore: 28 June 2018, INSPEC Accession Number: 17893871, DOI: 10.1109/CarpathianCC.2018.8399695 https://ieeexplore.ieee.org/abstract/document/8399695/references#references</p> <p>G. Husi, Cs. Szász, V. Chindriș (2010) <i>Artificial Immune System Implementation upon Embryonic Machine for Hardware Fault-tolerant industrial Control Applications</i>, Global Journal of Computer Science and Technology, Vol. 10, Issue 4, Version1.0, ISSN: 0975-4172, Print ISSN: 0975-4350, June 2010, pp. 60-66, Winston Univ., USA.</p> <p>Cited by:</p> <p>22. Zhang Z., et al. (2018) <i>Self-healing strategy for transient fault cell reutilization of embryonic array circuit</i>, IEEE NASA/ESA Conference on Adaptive Hardware and Systems, INSPEC Accession Number: 18274255, DOI: 10.1109/AHS.2018.8541472, https://ieeexplore.ieee.org/document/8541472</p>	5	
		<p>3.2 Citări în revistele BDI și volumele conferințel or BDI ⁽⁴⁾</p>	<p>3.2.1 Profesor/CS I: minim 20 citări din care minim 10 citări în reviste</p> <p>3.2.2 Conferențiar/CS II: minim 10 citări din care minim 5 citări in reviste</p>	<p>Reviste:</p> <p>Szász Cs., Marschalko R., Trifa V., Székely A., (1998) - <i>Data acquisition and signal processing in vector control of PM-hybrid stepping motor</i>. Proceedings of 6-th OPTIM'98 International Conference, Braşov, DOI: 10.1109/OPTIM.1998.707973, pp. 447-450.</p> <p>Cited by:</p> <p>1. Shi Jingzhuo, Xu Dianguo, Wang</p>	3/nr. autori ai articolului citat
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				<p>85030640486&origin=resultslist&sort=plf-f&cite=2-s2.0-84946685804&src=s&imp=1&sid=d69dcf388ebdbbc57ea72fcadf7b5bdd&sort=cite&sdt=a&sl=0&relpos=0&citeCnt=0&searchTerm</p> <p>32. Nurrahman, A.I., Mutijarsa, K., (2016) "Intelligent home management system prototype design and development", <i>2015 International Conference on Information Technology Systems and Innovation, ICITSI 2015 – Proceedings</i>, DOI: 10.1109/ICITSI.2015.7437735, https://www.scopus.com/record/display.uri?eid=2-s2.0-84967019373&origin=resultslist&sort=plf-f&cite=2-s2.0-84946685804&src=s&imp=1&sid=d69dcf388ebdbbc57ea72fcadf7b5bdd&sort=cite&sdt=a&sl=0&relpos=2&citeCnt=1&searchTerm</p> <p>33. Zhang, Z., Wang, Y. (2014) – Method to self-repairing reconfiguration strategy selection of embryonic cellular array on reliability analysis, <i>Proceedings of the 2014 NASA/ESA Conference on Adaptive Hardware and Systems, AHS 2014</i>, 6880181, pp. 225-232, https://www.scopus.com/record/display.uri?eid=2-s2.0-84906685679&origin=resultslist&sort=plf-f&cite=2-s2.0-77954813521&src=s&imp=t&sid=840897aa83d32b7e97e6ae9d8144325f&sort=cite&sdt=a&sl=0&relpos=0&citeCnt=8&searchTerm</p> <p>34. Zhuo, Q., Qian, Y., Li, Y., Wang, N., Li, T., (2013) - Embryonic electronics: State of the art and future perspective, <i>Proceedings of 2013 IEEE 11th International Conference on Electronic Measurement and Instruments, ICEMI 2013</i>, 1, 6743098, pp. 140-146, https://www.scopus.com/record/display.uri?eid=2-s2.0-84896800487&origin=resultslist&sort=plf-f&cite=2-s2.0-77954813521&src=s&imp=1&sid=840897aa83d32b7e97e6ae9d8144325f&sort=cite&sdt=a&sl=0&relpos=1&citeCnt=5&searchTerm</p> <p>Szász Cs., Chindriş V., (2009) <i>Fault-tolerance Implementation with Spare Cells in bio-inspired hardware Systems</i>, The 35th Annual Conference of the IEEE Industrial</p>	<p>1.5</p> <p>1.5</p> <p>1.5</p>
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			<p>Nuremberg, 7-9 June Germany, pp. 620-624, ISBN 3-928643-41-X</p> <p>Cited by:</p> <p>40. Muresan, C.I., Dulf, E.H., Both, R (2013) – “Fractional and integer order control. Application to DC motor speed control”, 17th International Conference on System Theory, Control and Computing, ICSTCC 2013; Joint Conference of SINTES 2013, SACCS 2013, SIMSIS 2013 – Proceedings, 6688986, pp. 362-367, IEEE XPLORE, https://www.scopus.com/record/display.uri?eid=2-s2.0-84893314302&origin=resultslist&sort=plf-f&cite=2-s2.0-50249154390&src=s&imp=t&sid=a6b3b59897a748936223a22ba03b92e4&st=cite&sdt=a&sl=0&relpos=1&citeCnt=3&searchTerm</p> <p>Szász Cs., Marschalko R., Trifa V., Székely A., (1998) - Data acquisition and signal processing in vector control of PM-hybrid stepping motor. Proceedings of 6-th OPTIM'98 International Conference, Braşov, 1998.</p> <p>Cited by:</p> <p>41. Li Lijuan, Chen Xikun, (2009) “Study on the novel main circuit topology of stepping motor drive”, <i>IEEE 6th International Power Electronics and Motion Control Conference</i>, 17-20 May 2009, INSPEC Accession Number: 10761468, DOI: 10.1109/PEMC.2009.5157727.</p>	3
			<p>Cited by:</p> <p>41. Li Lijuan, Chen Xikun, (2009) “Study on the novel main circuit topology of stepping motor drive”, <i>IEEE 6th International Power Electronics and Motion Control Conference</i>, 17-20 May 2009, INSPEC Accession Number: 10761468, DOI: 10.1109/PEMC.2009.5157727.</p>	0.75
		3.3 Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și Profesor invitat (exclusiv POS, ERASMUS)	<p>Punctaj unic pentru fiecare activitate</p> <p>3.3.1 internaționale</p> <p>1. Invited lecturer in the academic year of 2010/2011 (October) in the Faculty of Engineering, University of Debrecen, Department of Electrical Engineering and Mechatronics. Lectures in Electrotechnics and Electronics I, Programming and Digital Technics.</p> <p>2. Invited lecturer in the academic year of 2011/2012 (October) in the Faculty of Engineering, University of Debrecen, Department of Electrical Engineering and Mechatronics. Lectures in Electrotechnics and Electronics I, Programming and Digital Technics.</p>	20
				20

			<p>3. Invited lecturer in the academic year of 2012/2013 (October) in the Faculty of Engineering, University of Debrecen, Department of Electrical Engineering and Mechatronics. Lectures in Electrotechnics and Electronics 1, Programming and Digital Technics. 20</p> <p>4. Invited lecturer in 2017 (March) in the Faculty of Engineering, University of Debrecen, Department of Electrical Engineering and Mechatronics. Lectures in Bio-inspired Systems, FPGA-based systems. 20</p> <p>5. Invited lecturer in 2017 (October) in the Faculty of Engineering, University of Debrecen, Department of Electrical Engineering and Mechatronics. Lectures in Mechatronic Systems, FPGA-based systems. 20</p> <p>6. Invited lecturer in 2018 (March) in the Faculty of Engineering, University of Debrecen, Department of Electrical Engineering and Mechatronics. Lectures in Mechatronics. 20</p>	<p>Lista publicatii Pag. 56-62</p>
			3.3.2 naționale	
			3.4.1 WOS	
			1. Reviewer: <i>Transactions on Computers Journal</i> – revistă ISI	10
			3.4.2 BDI	Lista publicatii Pag. 63-81
			1. Member of Editorial Board: <i>International Review of Applied Sciences and Engineering Journal (Indexed Scopus)</i> ISSN: 2062-0810 https://eng.unideb.hu/hu/node/77	6
			2. Reviewer: <i>Mediterranean Conference on Control and Automation – Conf. BDI</i>	6
			3. Reviewer: <i>International Conference on High Performance Computational systems in Biology - Conf. BDI</i>	6
			4. Reviewer: <i>International Review of Applied Sciences and Engineering Journal</i> – revistă BDI	3*6
			5. Reviewer <i>IEEE IECON International Conference - Conf. BDI</i>	6
			6. Reviewer <i>IEEE CoDIT20 International Conference - Conf. BDI</i>	3*6
			7. Reviewer <i>IEEE IES ICPS20 International Conference - Conf. BDI</i>	6
			8. Reviewer <i>IEEE ICE 2017 International Conference - Conf. BDI</i>	6
			9. Reviewer <i>IEEE MED 2017 International Conference - Conf. BDI</i>	2*6
		3.4 Membru în colective de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale ale (punctajul se acordă pentru fiecare		

	revistă, manifestare științifică și recenzie)		3.4.3 Naționale și internaționale neindexate	
			1. Member of Editorial Board: <i>Recent Innovations in Mechatronics Journal</i> ISSN: 2064-9622 https://ojs.lib.unideb.hu/rjim/about/editorialTeam	3
			2. Member of Editorial Board: <i>Journal of Electrical Engineering Sciences</i> , ISSN: 2560-2713, http://www.uni-miskolc.hu/~elkvmt/	3
	3.5 Referent în comisia de doctorat		3.5.1 internaționale	
			3.5.2 naționale	
			1. Teza drd.Sinca Razvan	5
	3.6 Premii		Academia Română ASAS, AOSR, academii de ramură și CNCS Premii internaționale	
			1. Premiul III National Instruments Co. pentru cele mai bune dezvoltări pe anul 2012, pentru lucrarea: <i>Multimodal communication abilities development of the NI SbRIO-9631 prototype robot</i>	10 Lista publicatii Pag. 54-55
			Premii naționale în domeniu	
	3.7 Membru în academie, organizații, asociații profesionale de prestigiu, naționale și internaționale, aparținând la organizații din domeniul educației și cercetării	3.7.1 Academia Română		
		3.7.2 ASAS, AOSR și academii de ramură		
		3.7.3 Conducere asociații profesionale	internaționale naționale	
		3.7.4 Asociații profesionale	Internaționale	
			1. Member of the General Assembly of the Hungarian Academy of Sciences http://mta.hu/koztestuleti_tagok/?tag_kereso_sbmt=1&Name=Szasz+Csaba&NameMatchType=Contains&oszt%5B%5D=131&degree%5B%5D=8&expertiseArea=&ResearchTopic=&PublicBodyMember=ExternalOnly&RepresentativeOfDoctors=None&WorkplaceName=&country=30&region=all&Status=Alive&MtaId=&search=Keres%C3%A9s	5 Lista publicatii Pag. 51-53
			Naționale	
			1. Societatea Maghiară Tehnico-Științifică din Transilvania http://www.emt.ro	2
		3.7.5 Consilii și	conducere	

			organizații în domeniul educației și cercetării	membru		
					TOTAL A3: (min 120)	364,89
					TOTAL: (min 600)	1450,49

Mai, 2020

Conf.dr.ing. **SZÁSZ Csaba,**