

## Fisa de verificare a standardelor minimale pentru gradul de profesor universitar stabilite prin OM 6560 / 2012

**Candidat**                      **Silviu-Corneliu FOLEA**  
**Domeniul**                      **Ingineria Sistemelor**

Nr. Crt	Domeniul activ.	3	Subcategorii	Indicatori (kpi)	Numar	Punctaj	
0	1	2	4	5			
<b>1</b>	Activitatea didactica si profesionala (A1)	Carti si capitole de carti de specialitate in edituri recunoscute	Carti, monografii, capitole ca autor	A1.1.1. Internationale	25	6	150.00
		Material didactic/lucrari didactice	Manuale didactice	A1.1.2. nationale	20	2	40.00
				A1.2.1	10	2	20.00
<b>Total punctaj A(1)</b>							<b>210.00</b>
<b>2</b>	Activitatea de cercetare (A2)	Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings		A2.1	(25+ 20 * factor impact) / nr. de autori	27	295.87
		Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI)		A2.2	20 / nr. de autori	29	167.00
		Proprietate intelectuala, brevete de inventie, certificate ORDA		A2.3.1. Internationale	35 / nr. de autori	2	11.67
				A2.3.2. nationale	25 / nr. de autori	1	3.57
		Granturi/proiecte castigate prin competitie	Director / responsabil	A2.4.1.1. Internationale	20 * ani de desfasurare	2	50.00
				A2.4.1.2. nationale	10 * ani de desfasurare	1	5.00
			Membriu in echipa	A2.4.2.1. Internationale	4 * ani de desfasurare	3	32.00
		A2.4.2.2. nationale	2 * ani de desfasurare	21	94.00		
<b>Total punctaj A(2)</b>							<b>659.11</b>
<b>3</b>	Recunoasterea si impactul activitatii (A3)	Citari in carti, reviste si volume ale unor manifestari stiintifice		A3.1.1. carti, ISI	8 / nr aut art. citat	45	115.60
				A3.1.2. BDI	4 / nr aut art. citat	68	77.67
		Prezentari invitate in plenul unor manifestari stiintifice nationale si internationale si profesor invitat	Punctaj unic pentru fiecare activitate	A3.2.1. Internationale	10	0	0
				A3.2.2. nationale	5	0	0
		Membriu in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, internationale indexate ISI	Punctaj unic pentru fiecare activitate	A3.3.1. ISI	10	3	30
				A3.3.2. BDI	6	2	12
				A3.3.3. nationale si internationale neindexate	3	0	0
Premii in domeniu		A3.4.1. Academia Romana, ASTR, academii de ramura, premii internationale	15	0	0		
		A3.4.2. premii nationale in domeniu	5	11	40		
<b>Total punctaj A(3)</b>							<b>275.27</b>

Conditii minimale Ai			
Nr.	Domeniu de activitate (A)	Necesar Profesor	Realizat
<b>A1</b>	Activitatea didactica / profesionala (A1)	100	210.00
<b>A2</b>	Activitatea de cercetare (A2)	500	659.11
<b>A3</b>	Recunoasterea impactului activitatii (A3)	100	275.27
<b>Total (A)</b>		700	1144.38

### Fisa de verificare a indeplinirii condițiilor CNATDCU minimale obligatorii pe subcategorii

Subcategorii		Cond.minim.	Cond. candidat
<b>A1.1.1-A1.1.2</b>	Carti si capitole în carti de specialitate	4	<b>7</b>
<b>A1.2.1-A1.2.2</b>	Material didactic / Lucrari didactice	2	<b>2</b>
<b>A2.1.</b>	Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings	12	<b>27</b>
<b>A2.4.1.</b>	Granturi/proiecte castigate prin competitie (Director/ responsabil )	2	<b>3</b>
<b>A3.1.1 - A3.1.2</b>	Numar de citări in carti, reviste si volume ale unor manifestari stiintifice ISI sau BDI	20	<b>112</b>
	Factor de impact cumulat pentru publicatii	6	<b>23.48</b>

Cluj-Napoca,  
06.10.2016

Conf. dr. ing. Silviu-Corneliu FOLEA

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Candidat  
Domeniul

Silviu-Corneliu FOLEA  
Ingineria Sistemelor

Anexa: datele pentru calculul indeplinirii criteriilor

A1.1.1.-A1.1.2. Carti, monografii, capitole ca autor, internationale si nationale

Nr.	Autori	Titlu capitol / carte	Editura	Anul	Punctaj
1	T. Sanislav, G. Mois, S. Folea, L. Miclea	"Integrating wireless sensor networks and cyber-physical systems: challenges and opportunities." Book title "Cyber-Physical System Design with Sensor Networking Technologies," Edited by Sherali Zeadally and Nafaa Jabeur, ISBN: 978-1-84919-824-0	The Institution of Engineering and Technology	2015	25.00
2	S. Folea, M. Hulea, D. Ursuțiu	„Tag4M, an ultra-low power Wi-Fi embedded system for measurements”, Book title "Embedded Systems and Wireless Technologies: Theory and Practical Applications", ISBN: 978-1578088034.	Science Publisher	2012	25.00
3	S. Folea, M. Hulea, C. Avram, A. Astilean	„Distributed Monitoring and Supervising System for E-Health Applications”, Book title "Telemedicine and E-Health Services, Policies and Applications: Advancements and Developments”, Ioel J. P. C. Rodrigues, Isabel de la Torre Diez, Beatriz Sainz de Abajo (Ed.), pg. 264-314, ISBN: 9781466608887, DOI: 10.4018/978-1-4666-0888-7, pages 264-314.	IGI-Global	2012	25.00
4	S. Folea	„Practical Applications and Solutions using LabVIEW™ software”, Ed., ISBN: 978-953-307-650-8, 472 pg.	InTech Education and Publishing, Croatia	2011	25.00
5	M. Hulea, G. Mois, S. Folea	„Dynamic Wi-Fi Reconfigurable FPGA Based Platform for Intelligent Traffic Systems”, Book title "Practical Applications and Solutions using LabVIEW™ Software”, pg. 377-397, ISBN: 978-953-307-650-8.	InTech Education and Publishing, Croatia	2011	25.00
6	S. Folea, M. Ghercioiu	„Tag4M, a Wi-Fi RFID Active Tag optimized for Sensor Measurements”, Book title "Radio Frequency Identification Fundamentals and Applications Design Methods and Solutions", ISBN 978-953-7619-72-5, 324 pg.	InTech Education and Publishing, Croatia	2010	25.00
7	S. Folea	„Sisteme inglobate programabile cu LabVIEW”, ISBN: 978-973-713-150-8.	Editura Mediamira, Cluj-Napoca	2007	20.00
8	H. Hedeșiu, S. Folea, C. Martiș	„Programarea grafică a sistemelor SCADA”, ISBN 978-973-713-167-6.	Editura Mediamira, Cluj-Napoca	2007	20.00
					<b>190.00</b>

A1.2.1. Materiale didactice

Nr.	Autori	Titlu capitol / carte	Editura	Anul	Punctaj
1	I. Nașcu, Ioana Nașcu, R. Crișan, S. Folea	„Echipamente și sisteme de automatizare I”, ISBN: 978-606-737-099-7	Editura U.T. PRESS, Cluj-Napoca	2015	10.00
2	I. Nașcu, V. Dădărlat, S. Folea	„Circuite numerice”	Universitatea Tehnică din Cluj-Napoca	1996	10.00
					<b>20.00</b>
					<b>210.00</b>

A2.1. Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings:

Nr.	Autori	Titlu lucrare / revista (conferinta)	Factor de impact	Nr. Autori	Punctaj
1	G. Mois, T. Sanislav and S. C. Folea	"A Cyber-Physical System for Environmental Monitoring," in <i>IEEE Transactions on Instrumentation and Measurement</i> , vol. 65, no. 6, pp. 1463-1471, June 2016, <b>ISI Journal</b> .	1.808	3	20.39
2	S. Folea, G. Mois, C. I. Muresan, L. Miclea, R. De Keyser and M. N. Cirstea	"A Portable Implementation on Industrial Devices of a Predictive Controller Using Graphical Programming," in <i>IEEE Transactions on Industrial Informatics</i> , vol. 12, no. 2, pp. 736-744, April 2016, <b>ISI Journal</b> .	4.708	6	19.86
3	S. Folea, C. I. Muresan, R. De Keyser and C. M. Ionescu	"Theoretical Analysis and Experimental Validation of a Simplified Fractional Order Controller for a Magnetic Levitation System," in <i>IEEE Transactions on Control Systems Technology</i> , vol. 24, no. 2, pp. 756-763, March 2016, <b>ISI Journal</b> .	2.818	4	20.34
4	C. I. Muresan, C. Ionescu, S. Folea, R. DeKeyser	„Fractional Order Control of Unstable Processes: The Magnetic Levitation Study Case”, Nonlinear Dynamics, special issue entitled "Fractional Dynamics and Its Applications" NODY-D-14-00037R1, March 2014, ISSN: 0924-090X, <b>ISI Journal</b> .	3.000	4	21.25
5	Folea, S.C.; Mois, G.	"A Low-Power Wireless Sensor for Online Ambient Monitoring," <i>Sensors Journal</i> , IEEE, vol.15, no.2, pp.742,749, Feb. 2015, doi: 10.1109/JSEN.2014.2351420, <b>ISI Journal</b> .	1.852	2	31.02
6	C. I. Muresan, S. Folea, G. Mois, E. H. Dulf	"Development and Implementation of an FPGA Based Fractional Order Controller for a DC Motor", Elsevier, <i>Mechatronics</i> , Volume 23, Issue 7, October 2013, pg. 798–804 ISSN: 0957-4158, <b>ISI Journal</b> .	1.823	4	15.37
7	S. Folea, M. Hulea, G. Mois, V. Cosma	„Wi-Fi Portable Detector Solution for Distributed Radon Measurements”, <i>Romanian Journal of Physics</i> , Volume 58, ISSN 1221-146X, Supplement, 2013, pg. 126-140, (Indexed and abstracted in Science Citation Expanded and Journal Citation Reports/Science Edition), <a href="http://www.ifin.ro/rjp/2013_58_Suppl.html">http://www.ifin.ro/rjp/2013_58_Suppl.html</a> , <b>ISI Journal</b> .	0.526	4	8.88
8	B. Muresan, S. Folea, I. Nascu, C. Ionescu, R. DeKeyser	„Identification and modeling of the three rotational movements of a miniature coaxial helicopter”, <i>Simulation: Transactions of the Society for Modeling and Simulation International</i> 89(12), 2013, pg. 1490-1504, ISSN: 0037-5497, <b>ISI Journal</b> .	0.692	5	7.77
9	C. Muresan, I. Birs, S. Folea, E. Dulf, O. Prodan	Experimental Results of a Fractional Order PD Controller for Vibration Suppression, The 14th International Conference on Control, Automation, Robotics and Vision, ICARCV 2016, Phuket, Thailand, November 13 – 15, 2016, accepted	0.25	5	6.00
10	G. Mois, S. Folea, T. Sanislav and L. Miclea	"A low-power PSoC-based environmental monitoring system," 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, 2016, pp. 1-4.	0.25	4	7.50
11	I. R. Birs, C. I. Muresan, S. Folea, O. Prodan and L. Kovacs	"Vibration suppression with fractional-order PID $\mu$ controller," 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, 2016, pp. 1-6.	0.25	5	6.00
12	S. Folea, G. Mois, C. I. Muresan, L. Miclea, R. De Keyser and M. Cirstea	"Implementation of an extended prediction self-adaptive controller using LabVIEW™," 2015 IEEE 13th International Conference on Industrial Informatics (INDIN), Cambridge, 2015, pp. 883-888.	0.25	6	5.00

13	S. Folea, S. Enyedi, L. Miclea and H. Hedesiu	"Reconfigurable test platform for modular embedded systems in manufacturing processes," 2015 10th International Design & Test Symposium (IDT), Amman, 2015, pp. 72-77.	0.25	4	7.50
14	C. I. Muresan, O. Prodan, S. Folea	"Tuning Method of Fractional Order Controllers for Vibration Suppression in Smart Structures", 2014 the 4th International Conference on Mechanics, Simulation and Control, (ICMSC 2014), June 21-22, Moscow, Russia.	0.25	3	10.00
15	S. Folea, G. Mois, M. Hulea, L. Miclea, V. Biscu	„Data Logger for Humidity and Temperature Measurement Based on a Programmable SoC”, 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2014 (THETA 19), May 22-24, 2014, Cluj-Napoca, Romania.	0.25	5	6.00
16	S. Folea, D. Bordencea, C. Marcu, H. Valean	„Indoor localization based on Wi-Fi parameters influence”, 36th International Conference on Telecommunications and Signal Processing (TSP2013), July 2-4, 2013, Rome, Italy.	0.25	4	7.50
17	M. Hulea, G. Mois, S. Folea, L. Miclea, V. Biscu	„Wi-Sensors: a Low Power Wi-Fi Solution for Temperature Measurements”, 39th Annual Conference of the IEEE Industrial Electronics Society (IECON 2013), 10-13 Nov. 2013, Vienna, Austria, pg. 4011-4015, ISSN: 1553-572X.	0.25	5	6.00
18	C. I. Muresan, G. Mois, S. Folea, C. Ionescu	"Alternative Implementations of a Fractional Order Control Algorithm on FPGAs", ReConFig'13, 2013 International Conference on ReConFigurable Computing and FPGAs, Cancun, Mexico, Dec. 9-11, 2013.	0.25	4	7.50
19	C. I. Muresan, S. Folea, G. Mois	"Optimal Implementation of Advanced Control Methods on FPGA Targets", RIVF-2013: The 10th IEEE RIVF International Conference on Computing and Communication Technologies, Hanoi, Nov. 10-13, 2013.	0.25	3	10.00
20	D. Bordencea, H. Valean, S. Folea, A. Dobircău, R. Banut	„Agent based patient scheduling system”, 35th International Conference on Telecommunications and Signal Processing (TSP 2012), July 3-4, 2012, Prague, Czech Republic.	0.25	5	6.00
21	D. Bordencea, H. Vălean, S. Folea, A. Dobircău	„Agent Based System for Home Automation, Monitoring and Security”, 34th International Conference on Telecommunications and Signal Processing, TSP 2011, August 18-20, 2011, Budapest, Hungary.	0.25	4	7.50
22	R. Crișan, S. Folea, B. Mureșan, I. Nașcu	"LabVIEW benchmarks for real time embedded systems", Annals of DAAAM for 2009 & Proceedings of 20th DAAAM International Symposium, ISBN 978-3-901509-70-4.	0.25	4	7.50
23	I. Nașcu, G. Vlad, S. Folea, T. Buzdugan	"Development and Application of a PID Auto-Tuning Method to a Wastewater Treatment Process", 2008 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008 (THETA 16), May 22-25, 2008, Cluj-Napoca, Romania, ISBN: 978-1-4244-2574-1, T2, Pg. 229.	0.25	4	7.50
24	S. Folea, M. Ghercioiu	„Ultra-Low Power Wi-Fi Tag for Wireless Sensing”, 2008 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008 (THETA 16), May 22-25, 2008, Cluj-Napoca, Romania, ISBN: 978-1-4244-2574-1, Tome III, Pg. 247.	0.25	2	15.00
25	M. Hulea, A. Aștilean, T. Letia, R. Miron, S. Folea	"Fingerprint Recognition Distributed System", 2008 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008 (THETA 16), May 22-25, 2008, Cluj-Napoca, Romania, ISBN: 978-1-4244-2574-1, T3, Pg. 423.	0.25	5	6.00
26	Nascu, I.; De Keyser, R.; Folea, S.; Buzdugan T.	"Development and Evaluation of a PID Auto-Tuning Controller", AQTR 2006 (THETA 15), 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics May 25 - 28, 2006, Cluj-Napoca, Romania, Pg: 122-127, ISBN 1-4244-0360-x, DOI 10.1109/AQTR.2006.254510.	0.25	4	7.50
27	A. Aștilean, S. Folea	"Design and Testing in Laboratory Environment of the Embedded Control and Acquisition Microsystem (ECAM)", AQTR 2006 (THETA 15), 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics May 25 - 28, 2006, Cluj-Napoca, Romania, Pages: 442-447, ISBN 1-4244-0360-x, DOI 10.1109/AQTR.2006.254577.	0.25	2	15.00
<b>Factor impact cumulativ</b>			<b>21.98</b>		
<b>Total punctaj A2.1.</b>			<b>295.87</b>		

#### A2.2. Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI)

Nr.	Autori	Titlu lucrare / revista (conferinta)	Baza de date	Nr. Autori	Punctaj
1	Muresan, C.I., Folea, S., Prodan, O., Eva H. Dulf	"Design and Experimental Validation of an Optimal Fractional Order Controller for Vibration Suppression," The International Conference on Control, Decision and Information Technologies, Malta, April 6-8, 2016	IEEE-Xplore	4	5.00
2	O. Prodan, I. R Birs, S. Folea, C. I Muresan	"Seismic Mitigation in Civil Structures Using a Fractional Order PD Controller," International Journal of Structural and Civil Engineering Research Vol. 5, No. 2, May 2016, pg. 93-96.	Index Corpernicus, Google Academic	4	5.00
3	I. Birs, C. Muresan, S. Folea, O. Prodan	"A comparison between integer and fractional order pd $\mu$ controllers for vibration suppression," Applied Mathematics and Nonlinear Sciences, ISSN-e 2444-8656, Vol. 1, No. 1, 2016, pg. 273-282.	Google Academic	4	5.00
4	G. Mois, S. Folea, T. Sanislav and L. Miclea	"Communication in Cyber-Physical Systems," System Theory, Control and Computing (ICSTCC), 2015 19th International Conference on, Cheile Gradistei, 2015, pp. 303-307.	Scopus	4	5.00
5	S. Folea, B. Marton, C. I. Muresan	"Stabilizing Control Strategies: A Comparison Between the Fractional Order Controller and the IMC", 18th International Conference on System Theory, Control and Computing (ICSTCC 2014), 17 - 19 October 2014, Sinaia, Romania.	Scopus	3	6.67
6	T. Sanislav, G. Mois, S. Folea, L. Miclea, Giulio Gambardella, Paolo Prinetto	"A Cloud-based Cyber-Physical System for Environmental Monitoring", Proceedings of the 2014 3rd Mediterranean Conference on Embedded Computing (MECO), Budva, Montenegro, June 15th-19th, 2014, pg. 6-9, ISBN: 978-9940-9436-3-9.	IEEE	6	3.33
7	S. Folea, G. Mois, L. Miclea, D. Ursutiu	„Battery Lifetime Testing Using LabVIEW™", REV 2012, Remote Engineering & Virtual Instrumentation, July 4 - July 6, 2012, University of Deusto, Bilbao, Spain.	Scopus	4	5.00
8	S. Folea, G. Mois, L. Miclea	„Power Quality Measurement System Using FPGAs", OPTIM'2012, 13th International Conference on Optimization Of Electrical And Electronic Equipment, Brasov, Romania, 24- 26 May 2012.	Scopus	3	6.67
9	S. Folea, M. Neagu, G. Mois, L. Miclea	„Multi-purpose sensor platform development", 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 (THETA 18), May 24-27 2012 Cluj-Napoca, Romania.	Scopus	4	5.00

10	A. Dobircău, S. Folea, D. Bordencea, H. Valean	„System Based On Low-Power Wi-Fi Technology For Indoor Localization Of A Mobile User”, 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 (THETA 18), May 24-27 2012 Cluj-Napoca, Romania.	Scopus	4	5.00
11	S. Folea, D. Bordencea, C. Hotea, H. Valean	„Smart Home Automation System using Wi-Fi Low Power”, 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 (THETA 18), May 24-27 2012 Cluj-Napoca, Romania.	Scopus	4	5.00
12	S. Folea, C. Avram, S. Vidican, A. Astilean	„Telemonitoring System of Neurological Signs in a Health Telematique Network”, International Journal of E-Health and Medical Communications, IGI-Global, October-December 2010, Vol. 1, No. 4, pg 14-34, DOI: 10.4018/jehmc.2010100102, ISSN 1947-315X, eISSN 1947-3168.	InfoSci-Journals, Google Academic	4	5.00
13	D. Bordencea, S. Folea, H. Valean, A. Dobircău, M. Hulea	„Monitoring Radiations Based on Ultra Low Power Wi-Fi System”, 2011 19th Telecommunications Forum (TELFOR), pg. 389-392.	Scopus	5	4.00
14	A. Dobircău, S. Folea, H. Valean, D. Bordencea	„Indoor Localization System Based on Low Power Wi-Fi Technology”, 2011 19th Telecommunications Forum (TELFOR), pg. 317-320.	Scopus	4	5.00
15	M. Hulea, S. Folea, T. Letia, G. Mois	„A Collaborative Approach to Autonomous Single Intersection Control”, 19th Mediterranean Conference on Control and Automation, June 20-23, 2011, Aquis Corfu Holiday Palace, Corfu, Greece.	Scopus	4	5.00
16	G. Mois, M. Hulea, S. Folea, L. Miclea	„Self-healing Capabilities through Wireless Reconfiguration of FPGAs”, 9th East-West Design & Test Symposium (EWDTs 2011), Sevastopol, Ukraine, September 09 - 12, 2011.	Scopus	4	5.00
17	A. Dobircău, D. Bordencea, H. Valean, S. Folea	„Techniques and Algorithms for Indoor Localization of a Mobile Terminal”, Automation Computers Applied Mathematics, ACAM Scientific Journal, Volume 20 (2011), Number 3, ISSN 1221-437X, pg. 215-220.	Mathematical Reviews	4	5.00
18	S. Folea, M. Ghercioiu, D. Ursuțiu	„Cloud Instrument Powered by Solar Cell Sends Data to Pachube”, i-JOE, International Journal of Online Engineering, Vol.7 November 2010, doi:10.3991/ijxx.vvix.xxx, ISSN: 1861-2121.	Inspecc, DBLP	3	6.67
19	S. Folea, D. Bordencea, A. Morariu, H. Valean, A. Dobircău	„Wind Energy Survey with Wi-Fi Tags Based Intelligent Agents”, 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 (THETA 17), May 28-30 2010 Cluj-Napoca, Romania.	Scopus	5	4.00
20	A. Aștilean, C. Avram, S. Folea, I. Silvășan, D. Petreș	„Fuzzy Petri Nets based Decision Support System for Ambulatory Treatment of Non-Severe Acute Diseases”, 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 (THETA 17), May 28-30 2010, Cluj-Napoca, Romania.	Scopus	5	4.00
21	S. Folea, H. Valean, D. Bordencea	„Agent Based Embedded Monitoring System for Wind Surveillance”, Carpathian Journal of Electronic and Computer”, Engineering, vol.3, 2010, pp. 26-31, ISSN 1844 – 9689.	AnelisPlus, Google Academic	3	6.67
22	D. Bordencea, H. Valean, S. Folea, A. Dobircău	„Reliable and reconfigurable Wi-Fi monitoring network based on software agents”, 18th Telecommunications forum TELFOR 2010, Serbia, Belgrade, November 23-25, 2010	Google Academic	4	5.00
23	A. Morariu, S. Folea, H. Valean	„Reliable Agent Based Monitoring System”, ISCA 24th International Conference On Computers And Their Applications, CATA-2009, April 8-10, 2009, New Orleans, Louisiana, USA, 978-1-880843-73-4, pp. 99-104.	Scopus, DBLP	3	6.67
24	S. Folea	„Power Quality Measurements with a Real-Time System”, Automation Computers Applied Mathematics, ACAM Scientific Journal, Volume 18 (2009), Number 3, ISSN 1221-437X, pg. 352.	Mathematical Reviews	1	20.00
25	D. Bordencea, S. Folea, A. Morariu, H. Valean	„Monitoring system with intelligent agents”, Automation Computers Applied Mathematics, ACAM Scientific Journal, Volume 18 (2009), Number 3, ISSN 1221-437X, pg. 309.	Mathematical Reviews	4	5.00
26	I. Nașcu, S. Folea, T. Buzdugan, G. Vlad	„Development and Application of a PID Auto-Tuning Method for the Identification and Control of Wastewater Treatment Processes”, Automation Computers Applied Mathematics, ACAM Scientific Journal, Vol. 17, 2008, Nr. 4, Publisher: Mediamira, ISSN 1221-437X, Pg. 613.	Mathematical Reviews	4	5.00
27	M. Ghercioiu, S. Folea, I. Monoses	„The WiTAG-a WiFi Sensor TAG”, The 2007 International Conference on Wireless Networks, ICWN'07, June 25-28, 2007, Las Vegas, Nevada, USA, ISBN 1-60132-039-6, Pg. 376.	DBLP	3	6.67
28	R. Crișan, I. Nașcu, B. Muresan, S. Folea	„Modelarea proceselor de epurare biologică”, ECOTERRA Journal of Environmental Research and Protection, ISSN 1584-7071, no. 26, 2011, pg. 175-185, http://www.ecoterra-online.ro/files/1309108974.pdf.	Google Academic	4	5.00
29	R. Crișan, S. Folea, I. Nașcu	„Generalized Predictive Control Algorithm Implementation and LabVIEW Real Time Benchmarks”, Automation Computers Applied Mathematics, ACAM Scientific Journal, Volume 18 (2009), Number 3, ISSN 1221-437X, pg. 315.	Mathematical Reviews	3	6.67

Total punctaj A2.2.

167.00

**A2.3.1., A2.3.2. Proprietate intelectuala, brevete de inventie internationale si nationale**

Nr.	Autori	Denumire brevet	Tip: nat / internat.	Nr. Autori	Punctaj
1	M. Ghercioiu, H. Hedesiu, S. Folea, G. Crișan, C. Ceteras, I. Monoses	„Compact modular embedded device”, United States Patent 7860582B2, 12/28/2010	International (USPTO)	6	5.83
2	M. Ghercioiu, H. Hedesiu, S. Folea, G. Crișan, C. Ceteras, I. Monoses	„Deployment and execution of a graphical program on an embedded device from a PDA”, United States Patent 7647562B2, 01/12/2010	International (USPTO)	6	5.83
3	A. Aștilean, T. Leția, S. Folea, C. Avram, M. Hulea, R. Miron, E. Ciupan	„Sistem si metoda securizata de comunicatie intre dispozitive fixe si mobile”, Brevet RO 127706 A2, nr. de înreg. UTC-N 100003415	National	7	3.57
			Factor impact cumulativ	1.5	
			Total punctaj A2.3.1		11.67
			Total punctaj A2.3.2		3.57

**A2.4.1. Granturi/proiecte castigate prin competitie: director/responsabil de proiect**

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	International	ISA100: S. Folea, L. Miclea, G. Mois, T. Sanislav, „Sub 1 GHz ISA100 technology for low cost and low power consumption embedded systems”, TETRACOM-3rd Call for TTP Proposals (FP7), Partial Funding for Academia-Industry Technology Transfer Projects in Computing Systems, Technology Transfer in Computing Systems.	2016	0.5	10.00

2	International	WAIST: Wireless Applications for Satellite Assembly Integration and Testing Applications, nr. 4000108133, Control Data Systems SRL (CDS) și Thales Alenia Space France (TAS-F), contract lansat de Agenția Spațială Europeană cu nr. AO7169, terti, poziție: R&D Manager.	2015-2016	2	40.00
3	National	BLE-Sensors: S. Folea, G. Mois, T. Sanislav, „Power Harvesting Ambient Beacon for the IoT”, Accenture Industrial Software Solutions (AISS), Grant - Industrial Internet of Things (IIoT).	2016	0.5	5.00
<b>Total punctaj A2.4.1</b>					<b>55.00</b>

#### A2.4.2. Granturi/proiecte castigate prin competitie: membru in echipa

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	International	I3E - Promoting Innovation in the Industrial Informatics and Embedded Systems Sectors through Networking, ISI - Industrial Systems Institute / Research Centre ATHENA	2009-2011	3	12.00
2	International	Wireless Sensor Networks: hardware development and software implementation, National Instruments România srl și National Instruments USA, terti.	2005-2006	2	8.00
3	International	Compact modular embedded device, NIR srl și National Instruments USA, terti.	2003-2005	3	12.00
4	National	"Sisteme inteligente privind siguranța populației prin controlul și reducerea expunerii la radon corelate cu optimizarea eficienței energetice a locuințelor din aglomerări urbane importante din România", ID 37_229 SMART_RAD_EN, POC-A1-A1.1.4-E-2015	2016-2020	4	8.00
5	National	Noi Strategii de Control de Ordin Fractionar pentru Atenuarea Vibratiilor in Flancul Avioanelor, TE 86/2015, Muresan Cristina	2015-2017	2	4.00
6	National	Proiectarea sistemelor cyber-fizice cu autoîntreținere bazate pe tehnologia cloud computing – CyCloSe	2013-2014	1	2.00
7	National	Invață automată, POSDRU/81/3.2/S/64051	2010-2012	3	6.00
8	National	Creșterea competitivității întreprinderilor prin perfecționarea și specializarea resurselor umane în domeniul noilor tehnologii într-o societate bazată pe cunoaștere și pentru o dezvoltare durabilă, POSDRU/81/3.2/S/53084	2010-2012	3	6.00
9	National	Sistem de predicție și avertizare privind efectele încălzirii globale asupra sănătății populației, I-GLOB, Grant PART 42117/2008	2008-2011	3	6.00
10	National	Detectarea și identificarea substanțelor periculoase folosind spectrometria de mobilitate ionică cuplata cu spectrometria de masă, Grant PART 81023/2007	2007-2009	3	6.00
11	National	Sistem de identificare prin amprente digitale cu transmitere la distanță prin terminale mobile – IDA, Grant IDEI 11038/2007	2007-2009	3	6.00
12	National	Metode și tehnologii bazate pe medicina moleculară și celulară aplicate în chirurgia și tratamentul cancerului oșos, a metastazelor osoase și a leziunilor osteo-articulare – OSMOCEL, Grant PART 41-050/2007	2007-2009	3	6.00
13	National	Sistem inteligent de monitorizare și avertizare precoce asupra răspândirii pandemice a virusurilor, SIMONPAN, Grant CEEEX 128/2006	2006-2008	3	6.00
14	National	Cercetarea și dezvoltarea în domeniul automatizării și informaticii aplicate, TerNat 276/2008, SC Silcotub SA Zalau, terti.	2008	1	2.00
15	National	Laborator mobil de automatizare, TerNat, SC Silcotub SA Zalau, terti.	2008	1	2.00
16	National	Sisteme mobile de instrumentație virtuală distribuită pentru monitorizare și diagnostic de timp real în arhitecturi de celule electromecanice, Grant A cod CNCISIS 1263	2006-2007	2	4.00
17	National	Sistem inteligent pentru detecția calității alimentului utilizând tehnici inovative pe bază de senzori chimici, SISAL, Grant CEEEX 9/2005	2005-2007	3	6.00
18	National	Sistem inteligent de optimizare a parametrilor treptei biologice din stațiile de epurare, PNCDI-MENER 23831	2004	1	2.00
19	National	Modelarea, simularea și conducerea proceselor cu parametri distribuți, cu aplicații în instalații de separare a izotopilor stabili (N-15, O-18, C-13, deuteriu, uraniu), termoelectrică și chimie, Grant A cod CNCISIS 414	2003	1	2.00
20	National	SRAPE: Platformă pentru proiectarea asistată și evaluarea sistemelor de control automat” Faza II: Elaborarea softului de aplicație pentru platforma SRAPE, Contract 33531, cod CNCISIS 1094	2002-2004	3	6.00
21	National	Elaborarea și implementarea unor metode numerice de modelare și simulare, conducere robustă și diagnoză pentru aplicații destinate proceselor industriale, Proiect CNCISIS Contract nr. 26387 cod 71 poziția 1, finanțat de Banca Mondială și Guvernul României	1998-2001	3	6.00
22	National	Sistem de control distribuit cu flexibilitate și fiabilitate ridicată. Faza I: Proiectarea, realizarea și testarea senzorilor inteligenți și a controlerelor locale; Proiect de cercetare anual, tip A, Contract nr. 33830/99, tema 60/645; Faza II: Elaborarea și implementarea softului pentru comunicații și a strategiei de supervizare, Contract nr. 837118/2000, tema 34/585	1999-2000	2	4.00
23	National	Metode de modelare, simulare și conducere a proceselor cu parametri distribuți cu aplicații în procese termice și chimice, Proiect de cercetare anual, tip A. Contract nr. 34/1998, tema nr.21, cod CNCISU 45	1998	1	2.00
24	National	Strategii de conducere adaptivă a proceselor termoelectrice, Proiect de cercetare anual, tip A. Contract nr. 7003/97, tema 11/361, încheiat CNCISU	1997	1	2.00
<b>Total punctaj A2.4.2</b>					<b>126.00</b>

#### A3.1.1. Citiri in carti, reviste si volume ale unor manifestari stiintifice (carti, ISI)

Nr.	Articol citat	Articol care citeaza	Numar autori art.citat	Punctaj
1	Ci Muresan, C Ionescu, S Folea, R De Keyser, "Fractional order control of unstable processes: the magnetic levitation study case," Nonlinear Dynamics 80 (4), 1761-1772	Shah, P., & Agashe, S. (2016). Review of fractional PID controller. Mechatronics, 38, 29-41.	4	2.00
2		Titouche, K., Mansouri, R., Bettayeb, M., & Al-Saggaf, U. M. (2016). Internal Model Control–Proportional Integral Derivative–Fractional-Order Filter Controllers Design for Unstable Delay Systems. Journal of Dynamic Systems, Measurement, and Control, 138(2), 021006.	4	2.00

3		Zhou, Y., Ionescu, C., & Machado, J. T. (2015). Fractional dynamics and its applications. <i>Nonlinear Dyn</i> , 80(4), 1661-1664.	4	2.00
4	S. C. Folea and G. Mois. "A Low-Power Wireless Sensor for Online Ambient Monitoring," in <i>IEEE Sensors Journal</i> , vol. 15, no. 2, pp. 742-749, Feb. 2015	Potyralo, R. A. (2016). Multivariable Sensors for Ubiquitous Monitoring of Gases in the Era of Internet of Things and Industrial Internet. <i>Chemical Reviews</i> . FI=37.369.	2	4.00
5		Phala, K. S. E., Kumar, A., & Hancke, G. P. (2016). Air Quality Monitoring System Based on ISO/IEC/IEEE 21451 Standards. <i>IEEE Sensors Journal</i> , 16(12), 5037-5045.	2	4.00
6		Shah, J., & Mishra, B. (2016). Customized IoT Enabled Wireless Sensing and Monitoring Platform for Smart Buildings. <i>Procedia Technology</i> , 23, 256-263.	2	4.00
7		Nagarajan, R., & Dhanasekaran, R. (2016). Fault-Tolerant Wireless Communication System for Process Control in Wind Power Stations. <i>Journal of Scientific &amp; Industrial Research</i> , 75, 51-55.	2	4.00
8		Liang, H., Yang, G., Xu, Y., Gondal, I., & Wu, C. (2016). Wake-up timer and binary exponential backoff for ZigBee-based wireless sensor network for flexible movement control system of a self-lifting scaffold. <i>International Journal of Distributed Sensor Networks</i> , 12(9), 1550147716666663.	2	4.00
9		Sanislav, T., & Miclea, L. (2015). A Dependability Modeling Approach for Cyber-Physical Systems. <i>Journal of Computer Science and Control Systems</i> , 8(1), 23.	2	4.00
10	C. I. Muresan, S. Folea, G. Mois, E. H. Dulf, "Development and Implementation of an FPGA Based Fractional Order Controller for a DC Motor", <i>Elsevier, Mechatronics</i> , Volume 23, Issue 7, October 2013, pg. 798-804 ISSN: 0957-4158	Viveiros, C., Melicio, R., Igreja, J., & Mendes, V. M. F. (2015). Performance assessment of a wind energy conversion system using a hierarchical controller structure. <i>Energy Conversion and Management</i> , 93, 40-48.	4	2.00
11		I. Pan and S. Das, "Fractional Order AGC for Distributed Energy Resources Using Robust Optimization," in <i>IEEE Transactions on Smart Grid</i> , vol. 7, no. 5, pp. 2175-2186, Sept. 2016.	4	2.00
12		S. Debbarma; A. Dutta, "Utilizing Electric Vehicles for LFC in Restructured Power Systems Using Fractional Order Controller," in <i>IEEE Transactions on Smart Grid</i> , vol. PP, no. 99, pp.1-11	4	2.00
13		Kumar, M., & Patel, V. (2015). Tuning of two degree of freedom PID controller for second order processes. <i>International Journal of Science, Engineering and Technology Research</i> , 4(5), 1543-1546.	4	2.00
14		Xu, Y., Zhou, J., Xue, X., Fu, W., Zhu, W., & Li, C. (2016). An adaptively fast fuzzy fractional order PID control for pumped storage hydro unit using improved gravitational search algorithm. <i>Energy Conversion and Management</i> , 111, 67-78.	4	2.00
15		Gao, Q., Li, K., Hou, Y., Hou, R., & Wang, C. (2016). Balancing and positioning for a gun control system based on fuzzy fractional order proportional-integral-derivative strategy. <i>Advances in mechanical engineering</i> , 8(3), 1687814016639854.	4	2.00
16		Jeong, Y., Wibowo, S. A., Song, M., & Kim, S. Position coordinate representation of flying arrow and analysis of its performance indicator. <i>International Journal of Control, Automation and Systems</i> , 1-10.	4	2.00
17		Junyi, L., & Chen, Q. (2015). Fractional Order Controller Designing with Firefly Algorithm and Parameter Optimization for Hydroturbine Governing System. <i>Mathematical Problems in Engineering</i> , 2015.	4	2.00
18		Chen, Z., Yuan, X., Ji, B., Wang, P., & Tian, H. (2014). Design of a fractional order PID controller for hydraulic turbine regulating system using chaotic non-dominated sorting genetic algorithm II. <i>Energy Conversion and Management</i> , 84, 390-404.	4	2.00
19	S. Folea, G. Mois, L. Miclea and D. Ursutiu, "Battery lifetime testing using LabVIEW™, Remote Engineering and Virtual Instrumentation (REV), 2012 9th International Conference on, Bilbao, 2012, pp. 1-6	Ram, K. S. S., & Gupta, A. N. P. S. IoT based Data Logger System for weather monitoring using Wireless sensor networks. <i>International Journal of Engineering Trends and Technology (IJETT) – Vol. 32 No. 2 February 2016</i>	4	2.00
20	S. Folea, G. Mois, L. Miclea, „Power Quality Measurement System Using FPGAs“, OPTIM'2012, 13th International Conference on Optimization Of Electrical And Electronic Equipment, Brasov, Romania, 24- 26 May 2012	Betta, G., Ferrigno, L., & Laracca, M. (2013). Cost-Effective FPGA Instrument for Harmonic and Interharmonic Monitoring. <i>Instrumentation and Measurement, IEEE Transactions on</i> , 62(8), 2161-2170.	3	2.67
21	S. Folea, M. Neagu, G. Mois, L. Miclea, „Multi-purpose sensor platform development“, 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 (THETA 18), May 24-27 2012 Cluj-Napoca, Romania	Li, Q., Niu, W., Li, G., Tong, E., Hu, Y., Liu, P., & Guo, L. Recover Fault Services via Complex Service-to-Node Mappings in Wireless Sensor Networks. <i>Journal of Network and Systems Management</i> , 1-28.	4	2.00
22	S. Folea, D. Bordenca, C. Hotea, H. Valean, „Smart Home Automation System using Wi-Fi Low Power“, 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2012 (THETA 18), May 24-27 2012 Cluj-Napoca, Romania	Ghayvat, H., Mukhopadhyay, S. C., & Gui, X. (2015). Sensing Technologies for Intelligent Environments: A Review. In <i>Intelligent Environmental Sensing</i> (pp. 1-31). Springer International Publishing.	4	2.00
23		Solanki, V. K., Muthusamy, V., & Katiyar, S. (2016). Think Home: A Smart Home as Digital Ecosystem. <i>Circuits and Systems</i> , 7(08), 1976.	4	2.00
24	A. Dobircău, S. Folea, H. Valean, D. Bordenca, „Indoor Localization System Based on Low Power Wi-Fi Technology“, 2011 19th Telecommunications Forum (TELFOR), pp. 317-320	Dziak, D., Jachimczyk, B., & Kulesza, W. J. (2016). Wirelessly Interfacing Objects and Subjects of Healthcare System-IoT Approach. <i>Elektronika ir Elektrotechnika</i> , 22(3), 66-73.	4	2.00
25	D. Bordenca, H. Valean, S. Folea, A. Dobircău, „Agent Based System for Home Automation, Monitoring and Security“, 34th International Conference on Telecommunications and Signal Processing, TSP 2011, August 18-20, 2011, Budapest, Hungary	Ghayvat, H., Mukhopadhyay, S. C., & Gui, X. (2015). Sensing Technologies for Intelligent Environments: A Review. In <i>Intelligent Environmental Sensing</i> (pp. 1-31). Springer International Publishing.	4	2.00
26		Zupančič, D., Luštrek, M., & Gams, M. (2013). A Network of Sensor and Actuator Agents for Building Automation Systems. In <i>Human Aspects in Ambient Intelligence</i> (pp. 121-132). Atlantis Press.	4	2.00

27		Mudgill, A., Dhawan, S., & Sharma, S. Design and development of sensor based home automation and security system using GSM module and locking system. International Journal of Advanced Engineering Research and Science (IAERS), Vol-1, Issue-4, Sept.-2014	4	2.00
28		Solanki, V. K., Muthusamy, V., & Katiyar, S. (2016). Think Home: A Smart Home as Digital Ecosystem. Circuits and Systems, 7(08), 1976.	4	2.00
29	M. Hulea, S. Folea, T. Letia, G. Mois, „A Collaborative Approach to Autonomous Single Intersection Control”, 19th Mediterranean Conference on Control and Automation, June 20-23, 2011, Aquis Corfu Holiday Palace, Corfu, Greece	Kim, G. S., Son, Y. S., Lee, J. H., Kim, I. W., Kim, J. C., Oh, J. T., & Kim, H. (2016). Air Pollution Monitoring and Control System for Subway Stations Using Environmental Sensors. Journal of Sensors, 2016.	4	2.00
30		A. Córdoba; J. J. Astrain; J. Villadangos; L. Azpilicueta; P. López-Iturri; E. Aguirre; F. Falcone, "SesToCross: Semantic Expert System to Manage Single-Lane Road Crossing," in IEEE Transactions on Intelligent Transportation Systems , vol.PP, no.99, pp.1-13	4	2.00
31	M. Hulea, G. Mois, S. Folea, „Dynamic Wi-Fi Reconfigurable FPGA Based Platform for Intelligent Traffic Systems”, Book title "Practical Applications and Solutions using LabVIEWTM Software", InTech Education and Publishing, Croatia, 2011, pg. 377-397, ISBN: 978-953-307-650-8	Muresan, C. I. (2014). Fractional Calculus: From Simple Control Solutions to Complex Implementation Issues. In Discontinuity and Complexity in Nonlinear Physical Systems (pp. 113-134). Springer International Publishing.	3	2.67
32	G. Mois, M. Hulea, S. Folea, L. Miclea, „Self-healing Capabilities through Wireless Reconfiguration of FPGAs”, 9th East-West Design & Test Symposium (EWDTs 2011)	Muresan, C. I. (2014). Fractional Calculus: From Simple Control Solutions to Complex Implementation Issues. In Discontinuity and Complexity in Nonlinear Physical Systems (pp. 113-134). Springer International Publishing.	4	2.00
33	S. Folea, M. Ghercioiu, D. Ursuțiu, „Cloud Instrument Powered by Solar Cell Sends Data to Pachube”, i-JOE, International Journal of Online Engineering, Vol.7 November 2010, doi:10.3991/ijxx.vxiix.xxx, ISSN: 1861-2121	Deaky, B. (2012). Applications Developed with the Microcontroller Student Learning Kit for the Teelengineering Field. Embedded Systems and Wireless Technology: Theory and Practical Applications, 257.	3	2.67
34	S. Folea, M. Ghercioiu, „Tag4M, a Wi-Fi RFID Active Tag optimized for Sensor Measurements”, Book title "Radio Frequency Identification Fundamentals and Applications Design Methods and Solutions", InTech Education and Publishing, Croatia, 2010, ISBN 978-953-7619-72-5, 324 pg.	Jun, B. O., Lee, G. J., Kang, J. G., Kim, S., Choi, J. W., Cha, S. N., ... & Jang, J. E. (2015). Wireless thin film transistor based on micro magnetic induction coupling antenna. Scientific reports, 5.	2	4.00
35		Zacharias, S., & Newe, T. (2010). Technologies and Architectures for Multimedia-Support in Wireless Sensor Network. INTECH Open Access Publisher.	2	4.00
36	I. Nașcu, G. Vlad, S. Folea, T. Buzdugan, "Development and Application of a PID Auto-Tuning Method to a Wastewater Treatment Process", 2008 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008 (THETA 16), May 22-25, 2008, Cluj-Napoca, Romania, ISBN: 978-1-4244-2574-1, T2, Pg. 229	Azman, A. A., Rahiman, M. H. F., Sidek, N., & Bakar, I. A. A. WATER QUALITY PARAMETER: A REVIEW ON DISSOLVE OXYGEN (DO) CONTROL METHOD. International Journal of Technical Research and Applications, Special Issue 28 (August, 2015), PP. 98 - 102	4	2.00
37	M. Hulea, A. Astilean, T. Letia, R. Miron, S. Folea, "Fingerprint Recognition Distributed System", 2008 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008 (THETA 16), May 22-25, 2008, Cluj-Napoca, Romania, ISBN: 978-1-4244-2574-1, T3, Pg. 423	Peralta, D., Triguero, I., Sanchez-Reillo, R., Herrera, F., & Benitez, J. M. (2014). Fast fingerprint identification for large databases. Pattern Recognition, 47(2), 588-602.	5	1.60
38	S. Folea, M. Ghercioiu, „Ultra-Low Power Wi-Fi Tag for Wireless Sensing”, 2008 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008 (THETA 16), May 22-25, 2008, Cluj-Napoca, Romania, ISBN: 978-1-4244-2574-1, Tome III, Pg. 247	Hayajneh, T., Almashaqbeh, G., Ullah, S., & Vasilakos, A. V. (2014). A survey of wireless technologies coexistence in WBAN: analysis and open research issues. Wireless Networks, 20(8), 2165-2199.	2	4.00
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41		Unander, T., Siden, J., & Nilsson, H. E. (2011). Designing of RFID-based sensor solution for packaging surveillance applications. IEEE Sensors Journal, 11(11), 3009-3018.	2	4.00
42	Nascu, I.; De Keyser, R.; Folea, S.; Buzdugan T., "Development and Evaluation of a PID Auto-Tuning Controller", AQTR 2006 (THETA 15), 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics May 25 - 28, 2006, Cluj-Napoca, Romania, Pages: 122-127, ISBN 1-4244-0360-x	O'Dwyer, A. (2012). An Overview of Tuning Rules for the PI and PID Continuous-Time Control of Time-Delayed Single-Input, Single-Output (SISO) Processes. In PID Control in the Third Millennium (pp. 3-44). Springer London.	4	2.00
43		Rahman, A., Sharif, S. B., Hossain, A., Mohiuddin, A. K. M., & Alam, A. Z. (2012). Kinematics and nonlinear control of an electromagnetic actuated CVT system for passenger vehicle. Journal of mechanical science and technology, 26(7), 2189-2196.	4	2.00
44		Ataur, R., & Bin, S. S. (2013). Fuzzy Logic Controlled Electromagnetic Actuated Cvt System for Passenger Car. In Proceedings of the FISITA 2012 World Automotive Congress (pp. 387-397). Springer Berlin Heidelberg.	4	2.00
45	Crîșan R., Folea S., Mureșan B., Nașcu I., "LabVIEW Benchmarks for Real Time Embedded Systems", Annals of DAAAM for 2009 & Proceedings of 20th DAAAM International Symposium	R. Both, A.M. Cormos, P.S. Agachi, C. Festila, (2013) Computers & Chemical Engineering, Volume 52, 10 May 2013, Pages 100-111	4	2.00

Total punctaj A3.1.1.

115.60

A3.1.2. Citari in carti, reviste si volume ale unor manifestari stiintifice (BDI)

Nr.	Articol citat	Articol care citeaza	Numar autori art.citat	Punctaj
1	Folea, S., Muresan, C. I., De Keyser, R., & Ionescu, C. M. (2016). Theoretical analysis and experimental validation of a simplified fractional order controller for a magnetic levitation system. IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY, 24(2), 756-763.	Sun, X., Shen, Y., Zhou, Z., Yang, Z., & Chen, L. Modeling and control of a bearingless permanent magnet synchronous motor. International Journal of Applied Electromagnetics and Mechanics, (Preprint), 1-15.	4	1.00



2	Muresan, C. I., Ionescu, C., Folea, S., & De Keyser, R. (2014). Fractional order control of unstable processes: the magnetic levitation study case. <i>Nonlinear Dynamics</i> , 80(4), 1761-1772.	Tepajakov, A., Petlenkov, E., Belikov, J., & Gonzalez, E. (2014, December). Design of retuning fractional PID controllers for a closed-loop magnetic levitation control system. In <i>Control Automation Robotics &amp; Vision (ICARCV)</i> , 2014 13th International Conference on (pp. 1345-1350). IEEE.	4	1.00
3	Folea, S. C., & Mois, G. (2015). A Low-Power Wireless Sensor for Online Ambient Monitoring. <i>Sensors Journal, IEEE</i> , 15(2), 742-749.	Shah, J., & Mishra, B. (2016, March). Customized IoT enabled Wireless Sensing and Monitoring Platform for preservation of artwork in heritage buildings. In <i>Wireless Communications, Signal Processing and Networking (WISPNET)</i> , International Conference on (pp. 361-366). IEEE.	2	2.00
4		Kerezov, A., Kulkarni, A., & Nihtianov, S. (2015, November). Wireless temperature sensor for harsh industrial environments. In <i>Industrial Electronics Society, IECON 2015-41st Annual Conference of the IEEE</i> (pp. 003986-003991). IEEE.	2	2.00
5		Shah, J., & Mishra, B. (2016, January). IoT enabled environmental monitoring system for smart cities. In <i>Internet of Things and Applications (IOTA)</i> , International Conference on (pp. 383-388). IEEE.	2	2.00
6		Kerezov, A., Kulkarni, A., & Nihtianov, S. (2015, November). Wireless temperature sensor for harsh industrial environments. In <i>Industrial Electronics Society, IECON 2015-41st Annual Conference of the IEEE</i> (pp. 003986-003991). IEEE.	2	2.00
7		Imam, S. A., Choudhary, A., & Sachan, V. K. (2015, October). Design issues for wireless sensor networks and smart humidity sensors for precision agriculture: A review. In <i>2015 International Conference on Soft Computing Techniques and Implementations (ICSTI)</i> (pp. 181-187). IEEE.	2	2.00
8	Sanislav, T., Mois, G., Folea, S., Miclea, L., Gambardella, G., & Prinetto, P. E., "A Cloud-based Cyber-Physical System for Environmental Monitoring", <i>Proceedings of the 2014 3rd Mediterranean Conference on Embedded Computing (MECO)</i> , Budva, Montenegro, June 15th-19th, 2014, pp. 6-9, ISBN: 978-9940-9436-3-9.	Malavolta, I., Muccini, H., & Sharaf, M. (2015, September). A Preliminary Study on Architecting Cyber-Physical Systems. In <i>Proceedings of the 2015 European Conference on Software Architecture Workshops</i> (p. 20). ACM.	6	0.67
9		Ruchkin, V., Fulin, V., Kostrov, B., Taganov, A., & Kolesenkov, A. (2016, June). Forest fire monitoring by means of cyber-physical system. In <i>Embedded Computing (MECO)</i> , 2016 5th Mediterranean Conference on (pp. 30-34). IEEE.	6	0.67
10	Muresan, B., Folea, S., Nascu, I., Ionescu, C., & De Keyser, R., "Identification and modeling of the three rotational movements of a miniature coaxial helicopter", <i>Simulation: Transactions of the Society for Modeling and Simulation International</i> 89(12), 2013, pp. 1490-1504, ISSN: 0037-5497, ISI Journal, FI=0.692.	Niu, S., Li, J., & Shen, Y. (2015, December). Design, modeling and disturbance rejection control of a bio-inspired coaxial helicopter MAV in Atmospheric Boundary Layer. In <i>2015 IEEE International Conference on Robotics and Biomimetics (ROBIO)</i> (pp. 1272-1277). IEEE.	5	0.80
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12		Niu, S., Deng, H., Li, J., & Shen, Y. (2014, December). Modeling, control and stabilization analysis on a two-link active tumbler system. In <i>Robotics and Biomimetics (ROBIO)</i> , 2014 IEEE International Conference on (pp. 211-216). IEEE.	5	0.80
13	M. Hulea, G. Mois, S. Folea, L. Miclea, V. Biscu, <i>W-sensors: A low power Wi-Fi solution for temperature and humidity measurement</i> , in: <i>Industrial Electronics Society, IECON 2013-39th Annual Conference of the IEEE</i> , 2013, pp. 4011-4015. doi:10.1109/iecon.2013.6699777.	Bor, M., King, A., & Roedig, U. (2015). Lifetime Bounds of Wi-Fi Enabled Sensor Nodes. <i>The 6th International Conference on Ambient Systems, Networks and Technologies (ANT-2015)</i> , the 5th International Conference on Sustainable Energy Information Technology (SEIT-2015), <i>Procedia Computer Science</i> , 52, 1108-1113, Elsevier.	5	0.80
14		Francis, M. S. N., GHRAET, R., & Boke, A. K. (2014). Design and implementation of monitoring system for frozen food during transportation using 1-wire protocol: a review. <i>IIAICT Volume 1, Issue 7, November 2014</i> , Doi:01.0401/jiaict.2014.07.10	5	0.80
15	C. I. Muresan, S. Folea, G. Mois, E. H. Dulf, "Development and Implementation of an FPGA Based Fractional Order Controller for a DC Motor", <i>Elsevier, Mechatronics</i> , Volume 23, Issue 7, October 2013, pp. 798-804 ISSN: 0957-4158	Akkaya, S., Akbati, O., & Gorgun, H. (2014, November). Multiple closed loop system control with digital PID controller using FPGA. In <i>Control, Decision and Information Technologies (CoDIT)</i> , 2014 International Conference on (pp. 764-769). IEEE.	4	1.00
16		Hulea, M., Miron, R., & Letia, T. (2016, May). Modular hybrid control system with Petri-Nets enhanced components for hydro power plant control. In <i>Automation, Quality and Testing, Robotics (AQTR)</i> , 2016 IEEE International Conference on (pp. 1-5). IEEE.	4	1.00
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18		Swati Singh, Ankita Kosti, "Comparative study of integer order PI-PD controller and fractional order PI-PD controller of a DC motor for speed and position control", <i>Int. J. Elec. &amp; Electr. Eng. &amp; Telecoms</i> . 2015, Vol. 4, No. 2, April 2015, ISSN 2319 – 2518	4	1.00
19	S. Folea, D. Bordenca, C. Marcu and H. Valean, "Indoor localization based on Wi-Fi parameters influence," <i>Telecommunications and Signal Processing (TSP)</i> , 2013 36th International Conference on, Rome, 2013, pp. 190-194.	Machaj, J., Brida, P., & Benikovsky, J. (2015, July). Impact of APs removal on accuracy of fingerprinting localization algorithms. In <i>Telecommunications and Signal Processing (TSP)</i> , 2015 38th International Conference on (pp. 1-5). IEEE.	4	1.00
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39	S. Folea, M. Ghercioiu, D. Ursuțiu, „Cloud Instrument Powered by Solar Cell Sends Data to Pachube”, i-JOE, International Journal of Online Engineering, Vol.7 November 2010, doi:10.3991/ijxx.vxiix.xxx, ISSN: 1861-2121	Lee, C. H., Birch, D., Wu, C., Silva, D., Tsinalis, O., Li, Y., ... & Guo, Y. (2013, October). Building a generic platform for big sensor data application. In Big Data, 2013 IEEE International Conference on (pp. 94-102). IEEE.	3	1.33
40		He, H., Zhao, W., & Huang, S. (2013). Future trend of integrating instrumentation into the cloud. International Workshop on Cloud Computing and Information Security (CCIS 2013), Published by Atlantis Press	3	1.33
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43		Shikhman, Menahem. "Graphically based method for developing rules for managing a laboratory workflow." U.S. Patent No. 9,123,002. 1 Sep. 2015.	6	0.67
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48		Rivkin, Slava. "System for communicating between a plurality of remote analytical instruments." U.S. Patent No. 9,268,619. 23 Feb. 2016.	6	0.67
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54		Liu, N., Huang, J., & Lu, F. (2013, July). Multivariable PID parameters tuning method based on model matching on frequency domain for aero-engine. In 2013 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (pp. 417-422). IEEE.	4	1.00
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58	S. Folea, M. Ghercioiu, „Ultra-Low Power Wi-Fi Tag for Wireless Sensing”, 2008 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2008 (THETA 16), May 22-25, 2008, Cluj-Napoca, Romania, ISBN: 978-1-4244-2574-1, Tome III, Pg. 247	Bor, M., King, A., & Roedig, U. (2015). Lifetime Bounds of Wi-Fi Enabled Sensor Nodes. The 6th International Conference on Ambient Systems, Networks and Technologies (ANT-2015), the 5th International Conference on Sustainable Energy Information Technology (SEIT-2015), Procedia Computer Science, 52, 1108-1113, Elsevier.	2	2.00
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63	A. Aştilean, S. Folea, "Design and Testing in Laboratory Environment of the Embedded Control and Acquisition Microsystem (ECAM)", AQTR 2006 (THETA 15), 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics May 25 - 28, 2006, Cluj-Napoca, Romania, Pages: 442-447, ISBN 1-4244-0360-x, DOI 10.1109/AQTR.2006.254577	Wieneke, J., Schinstock, D., White, W. N., & Hu, G. (2010, June). Redesign of an undergraduate controls laboratory with an eye toward accommodating future upgrades. In American Control Conference (ACC), 2010 (pp. 384-389). IEEE.	2	2.00
64	Nascu, I.; De Keyser, R.; Folea, S.; Buzdugan T., "Development and Evaluation of a PID Auto-Tuning Controller", AQTR 2006 (THETA 15), 2006 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics May 25 - 28, 2006, Cluj-Napoca, Romania, Pages: 122-127, ISBN 1-4244-0360-x	Sharif, S. B., Rahman, A., Mohiuddin, A. K. M., & Hossain, A. (2013). Study on the development of a fuzzy logic control electromagnetic actuated CVT system. International Journal of Engineering Systems Modelling and Simulation, 5(4), 217-225.	4	1.00
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67		Hegde, S., & Izadian, A. (2014, February). Control of single switch inverters. In Power and Energy Conference at Illinois (PECI), 2014 (pp. 1-6). IEEE.	4	1.00

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Total punctaj A3.1.2.

77.67

A3.3.1. / A3.3.2 / A3.3.3. Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, internationale indexate ISI

Nr.	Scopul	Denumirea	Perioada	Tipul
1	Chairman Regular session A2	IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2014 - THETA 19, Cluj-Napoca, Romania	May 22-24 2014	ISI
2	Chairman sectiunea 1 Multimedia	2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 - THETA 17, Cluj-Napoca, Romania	May 28-30 2010	BDI
3	Chairman sectiunea 3 Multimedia	2008 IEEE-TTTC International Conference on Quality, Automation and Robotics AQTR 2008, Cluj- Napoca, Romania	22-25 Mai, 2008	ISI
4	Chairman sectiunea Poster P1	2006 IEEE-TTTC International Conference on Quality, Automation and Robotics AQTR 2006, Cluj- Napoca, Romania	25-28 Mai, 2006	ISI
5	Chairman sectiunea Junior	2004 IEEE-TTTC International Conference on Quality, Automation and Robotics AQTR 2004, Cluj-Napoca, Romania	13-15 Mai, 2004	BDI

Total punctaj A3.3.1-3

42

A3.3. Recenzor

Nr.	Membru/Recenzor	Descriere	Tip (ISI/BDI)
1	Recenzor	Recenzor pentru revista "ISA Transactions", factor de impact 2.6, ISSN: 0019-0578, (ISATRANS-D-16-01015)	ISI
2	Recenzor	Recenzor pentru revista "Control Engineering Practice", factor de impact 1.83, ISSN:0967-0661, (CONENGPRAC-D-16-00554)	ISI
3	Recenzor	Recenzor (2015) pentru revista "IEEE Transactions on Industrial Electronics", factor de impact 6.383, ISSN: 0278-0046, (I5-TIE-1358)	ISI
4	Recenzor	Recenzor pentru revista "IEEE Transactions on Industrial Informatics", factor de impact 4.708, ISSN: 1551-3203, (TII-12-0489, TII-14-0591, TII-16-0581)	ISI
5	Recenzor	Recenzor pentru revista "IEEE Sensors Journal", factor de impact 1.889, ISSN: 1530-437X, (Sensors-6561-2012, Sensors-15927-2016)	ISI
6	Recenzor	Recenzor pentru revista "Computers in Biology and Medicine", factor de impact 1.521, ISSN: 0010-4825, (CBM-D-14-00485)	ISI
7	Recenzor	Recenzor pentru editura "InTech", Croatia, ISBN: 978-953-307-650-8	BDI
8	Recenzor	Recenzor pentru editura "Science Publisher", ISBN: 978-1578088034	BDI

Total punctaj A3.2.1., 2.

A3.4.2. Premii nationale in domeniul

Nr.	Anul	Descriere premiu	Punctaj
1	2016	Lucre depusa pentru premiere in 2016 de UEFISCDI (zona cu rosu): S. Folea, G. Mois, C. I. Muresan, L. Miclea, R. De Keyser and M. N. Cirstea, "A Portable Implementation on Industrial Devices of a Predictive Controller Using Graphical Programming," in IEEE Transactions on Industrial Informatics, vol. 12, no. 2, pp. 736-744, April 2016, PRECISI-2016-16572	0
2	2016	Lucre depusa pentru premiere in 2016 de UEFISCDI (zona cu rosu): S. Folea, C. I. Muresan, R. De Keyser and C. M. Ionescu, "Theoretical Analysis and Experimental Validation of a Simplified Fractional Order Controller for a Magnetic Levitation System," in IEEE Transactions on Control Systems Technology, vol. 24, no. 2, pp. 756-763, March 2016	0
3	2016	Lucre depusa pentru premiere in 2016 de UEFISCDI (zona cu galben): G. Mois, T. Sanislav and S. C. Folea, "A Cyber-Physical System for Environmental Monitoring," in IEEE Transactions on Instrumentation and Measurement, vol. 65, no. 6, pp. 1463-1471, June 2016	0
4	2015	Lucre premiata in 2015 de UEFISCDI (zona cu rosu): Muresan, C.I., Ionescu, C., Folea, S., De Keyser, R. (2015), Fractional Order Control of Unstable Processes: The Magnetic Levitation Study Case, Journal of Nonlinear Dynamics, Vol. 80, No. 4, pp. 1761-1772, DOI: 10.1007/s11071-014-1335-z, UEFISCDI, PN-II-RU-PRECISI-2015-9-7599	5
5	2015	Lucre premiata in 2015 de UEFISCDI (zona cu galben): S. Folea, G. Mois, "A Low-Power Wireless Sensor for Online Ambient Monitoring," Sensors Journal, IEEE, vol.15, no.2, pp.742,749, Feb. 2015, PRECISI- 2015-10431	5
6	2014	Lucre premiata in 2014 de UEFISCDI (zona cu rosu): Muresan, C.I., Folea, S., Mois, G., Dulf, E.H., Development and Implementation of an FPGA Based Fractional Order Controller for a DC Motor, Elsevier Journal of Mechatronics, vol. 23, no. 7, pp. 798-804, UEFISCDI, PN-II-RU-PRECISI- 2014-8-4691	5
7	2014	Brevet premiat cu medalia de aur la INVENTIKA-2014; A. Aştilean, T. Leţia, S. Folea, C. Avram, M. Hulea, R. Miron, E. Ciupan, „Sistem si metoda securizata de comunicatie între dispozitive fixe si mobile”, Brevet a2010 01303, nr. de înreg. UTC-N 1000003415.	5
8	2011	Brevet premiat cu diploma de excelenţă si cu medalia de aur la Salonul Internaţional de inventică "Pro Invent", ediţia a IX-a, 2011, Cluj-Napoca; M. Ghercioiu, H. Hedesiu, S. Folea, G. Crisan, C. Ceteras, I. Monoses, „Compact modular embedded device”, United States Patent 7860582B2, 12/28/2010.	5

9	2011	<b>Brevet premiat cu medalia de aur</b> la Euro Invent 2011; A. Aștilean, T. Leția, S. Folea, C. Avram, M. Hulea, R. Miron, E. Ciupan, „Sistem si metoda securizata de comunicatie intre dispozitive fixe si mobile”, Brevet a2010 01303, nr. de înreg. UTC-N 100003415.	5
10	2011	<b>Brevet premiat cu medalia de argint</b> la INVENTIKA-2011; A. Aștilean, T. Leția, S. Folea, C. Avram, M. Hulea, R. Miron, E. Ciupan, „Sistem si metoda securizata de comunicatie intre dispozitive fixe si mobile”, Brevet a2010 01303, nr. de înreg. UTC-N 100003415.	5
11	2010	<b>Brevet premiat cu diploma de excelență si cu medalia de aur</b> la Salonul Internațional de inventică "Pro Invent", ediția a VIII-a, 2010, Cluj-Napoca, M. Ghercioiu, H. Hedesiu, S. Folea, G. Crisan, C. Ceteras, I. Monoses, „Deployment and execution of a graphical program on an embedded device from a PDA”, United States Patent 7647562B2, 01/12/2010.	5

**Total punctaj A3.4.2.**

**40**

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