

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

**Nume și Prenume**  
**Domeniul**

**Muresan Vlad**  
**Ingineria Sistemelor**

Nr. Crt	Domeniul activ.	2	3	Subcategorii	Indicatori (kpi)	Numar	Punctaj	
0	1	2	3	4	5			
1	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	2	50
		Material didactic/lucrari didactice	Manuale didactice	A1.1.2.	nationale	20	3	60
				A1.2.1		10	2	20
<b>Total punctaj A(1)</b>							<b>130</b>	
2	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	41	324.29
		Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI)		A2.2		20 / nr. de autori	45	272.26
		Proprietate intelectuala, brevete de inventie, certificate ORDA		A2.3.1	Internationale	35 / nr. de autori	0	0
				A2.3.2	nationale	25 / nr. de autori	0	0
		Granturi/proiecte castigate prin competitie	Director / responsabil	A2.4.1.1	Internationale	20 * ani de desfasurare	0	0
				A2.4.1.2	nationale	10 * ani de desfasurare	2	40
				Membru in echipa	A2.4.2.1	Internationale	4 * ani de desfasurare	0
A2.4.2.2	nationale	2 * ani de desfasurare	2		12			
<b>Total punctaj A(2)</b>							<b>648.55</b>	
3	Recunoasterea si impactul activitatii (A3)	Citari in carti, reviste si volume ale unor manifestari stiintifice		A3.1.1	carti, ISI	8 / nr aut art. citat	32	192
				A3.1.2	BDI	4 / nr aut art. citat	21	59
		Prezentari invitate in plenumul 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
		Membru 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	2	20
				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	4	60		
		A3.4.2	premiu nationale in domeniu	5	0	0		
<b>Total punctaj A(3)</b>							<b>343</b>	

Conditii minimale Ai			
Nr.	Domeniu de activitate (A)	Necesar Profesor	Realizat
A1	Activitatea didactica / profesionala (A1)	100	130
A2	Activitatea de cercetare (A2)	500	648.55
A3	Recunoasterea impactului activitatii (A3)	100	343
<b>Total (A)</b>		<b>700</b>	<b>1121.55</b>

Data 31.08.2017  
Conf. Dr. Ing. Vlad Muresan

C2,1 TOTAL A / 350 1.602214286  
C2,2 0.5x1+0.3x4+0.2\*5 2.7  
C2,3

Condiții minime obligatorii pe subcategorii			
Nr.	Domeniu de activitate (A)	Necesar Profesor	Realizat
A1.1.1 - A1.1.2	Cărți și capitole în cărți de specialitate	4 cărți/capitole	5 cărți/capitole
A1.2.1-A1.2.2	Material didactic / Lucrări didactice	2	2
A2.1	Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings	12	41
A2.4.1	Granturi/proiecte câștigate prin competiție (Director/ responsabil)	2	2
A3.1.1 - A3.1.2	Număr de citări în cărți, reviste și volume ale unor manifestări științifice ISI sau BDI	20	53
	Factor de impact cumulat pentru publicații	6	10.8

Data 31.08.2017  
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#### Anexa: datele pentru calculul indeplinirii criteriilor

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

Nr.	Autori	Titlu capitol / carte	Editura	Anul
1	Tiberiu Coloși, Mihail Abrudean, Mihaela Ungureșan, Vlad Mureșan	"Numerical simulation of distributed parameter processes".	SPRINGER	2013
2	Tiberiu Coloși, Mihail Abrudean, Mihaela-Ligia Ungureșan, Vlad Mureșan	"Examples of numerical Simulation for systems with distributed and lumped parameters through the Mpxd method with approximating solutions".	UTPRESS	2013
3	Tiberiu Coloși, Mihail Abrudean, Vlad Mureșan	"Cap. 27. Controlul Proceselor cu Parametri Distribuți", din volumul II "Automatica" din volumul II "Automatica".	Editura Academiei Române	2013
4	Vlad Mureșan, Honoriu Valean, Liviu Miclea, Mihai Abrudean	"Automatizarea unui cuptor cu vatra rotitoare", capitol (cap. 4) în cartea "Rețea națională de centre pentru dezvoltarea programelor de studii cu rute flexibile și a unor instrumente didactice la specializarea de licență și masterat, din domeniul Ingineria Sistemelor".	Editura CONSPRESS	2013
5	Horățiu Colosi, Dan Colosi, Vlad Mureșan, Marius Roman	"Radiation Protection in Medical Imaging", capitol (cap. 4) în cartea "Medical Imaging".	InTech	2011

##### A1.2.1. Materiale didactice

1	Vlad Mureșan	"Conducerea proceselor industriale - Îndrumător de laborator".	U.T. PRESS	2011
2	Vlad Mureșan, Mihail Abrudean	"Conducerea proceselor industriale – Curs didactic".	Editura Galaxia Gutenberg	2017

##### 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
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1	Vlad Mureșan, Mihail Abrudean, Mihaela-Ligia Ungureșan, Tiberiu Coloși	"Feed-forward Control of a Residual Water Blunting Process"/ Journal of Control Engineering and Applied Informatics (CEAI), vol 16, nr. 4, 2014, pag. 42-51.	0.371	4	8.105
2	Vlad Mureșan, Mihail Abrudean, Honoriu Vălean, Tiberiu Coloși	"Temperature Control of the Asphaltic Emulsion in an Industrial Tank", Proceedings of the 18th International Conference on System Theory, Control and Computing, Sinaia, Romania, October 17-19, 2014, pp.958-963, 2014.	0.25	4	7.5
3	Vlad Mureșan, Mihail Abrudean, Mihaela-Ligia Ungureșan, Tiberiu Coloși	"Cascade Control of a Residual Water Blunting System", Advances in Electrical and Computer Engineering (AECE Journal), vol. 14, nr. 2, 2014, pag. 135-144.	0.642	4	9.46
4	Vlad Mureșan, Mihail Abrudean	"Temperature Simulation in the Furnace with Rotary Hearth, using Taylor Series", Journal of Control Engineering and Applied Informatics (CEAI), Vol. 12, Nr. 4, 2010, pp. 51-59.	0	2	12.5
5	Adrian Groza, Anca Mărginean, Vlad Mureșan	"An ontology-based model for vehicular ad-hoc networks", 18th IEEE International Conference on Intelligent Engineering Systems (INES2014), 3-5 July, 2014, Tihany, Ungaria.	0.25	3	10
6	Tiberiu Coloși, Mihail Abrudean, Mihaela-Ligia Ungureșan, Vlad Mureșan	"Analogical Modeling and Numerical Simulation Variant for Distributed Parameter Processes, with Applications in Isotope Separations, Chemistry and Thermo-energetics", 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 1 – 10.	0.25	4	7.5
7	Tiberiu Coloși, Mihaela-Ligia Ungureșan, Vlad Mureșan	"Numerical Simulation of Distributed Parameter Processes using Cartesian, Spherical, Cylindrical and Spiral Coordinates", 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 1 – 6.	0.25	3	10
8	Mihaela-Ligia Ungureșan, Vlad Mureșan, Tiberiu Coloși	"Control System for a Distributed Parameter Process, with Applications in Isotope Separation Domain", 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România.	0.25	3	10
9	Vlad Mureșan, Mihail Abrudean, Tiberiu Coloși	"Temperature Modeling and Simulation of the Asphaltic Emulsion in an Industrial Tank", 2014 IEEE 9th International Symposium on Applied Computational Intelligence and Informatics (SACI 2014), 15-17 Mai, 2014, Timișoara, România, pag. 19 – 24.	0.25	3	10
10	Vlad Mureșan, Mihail Abrudean	"Automatic Control of the Driving of Loading-Unloading Machines Used for Servicing a Rotary Hearth Furnace", in Applied Mechanics and Materials, Vol. 436, 2013, pag 406-416.	0.25	2	15
11	Corina Bokor, Vlad Mureșan, Toderița Nemeș, Claudiu Isarie	"Analogical Modeling and Numerical Simulation for sintering phenomena", in Applied Mechanics and Materials, Vol. 436, 2013, pag. 127-136.	0.25	4	7.5
12	Ioan-Valentin Sita, Petru Dobra, Mirela Dobra, Vlad Mureșan	"Household Water Tank Temperature Control", in Applied Mechanics and Materials, Vol. 436, 2013, pag. 417-426,	0.25	4	7.5

13	Vlad Mureșan, Mihail Abrudean, Tiberiu Coloși	“Convergent control of the residual water blunting system used in metallurgy”, 17th International Conference on System Theory, Control and Computing (ICSTCC 2013), 11-13 Octombrie, 2013, Sinaia, România, pag. 368 – 373.	0.25	3	10
14	Vlad Mureșan, Mihail Abrudean, Tiberiu Colosi	“Analogical Modeling and Numerical Simulation of the Residual Water Blunting Process used in Metallurgy”, Proceedings CSCS – 19, 19th International Conference on Control Systems and Computer Science, Vol. 1, 29-31 Mai, 2013, București, România, pag. 268 – 275.	0.25	3	10
15	Vlad Mureșan, Mihail Abrudean, Tiberiu Coloși	“Modeling and Simulation of the Automatic Control System of the Residual Water Blunting Process from a Metallurgical factory”, 8th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2013), 23–25 Mai, Timișoara, România, 2013, pag. 359-364.	0.25	3	10
16	Vlad Mureșan, Mihail Abrudean	“Control System Optimization of Rotary Hearth Furnace Charging/Discharging”, 5th International Symposium on Applied Computational Intelligence and Informatics (SACI 2009 IEEE PROCEEDINGS), 28-29 Mai, 2009, Timișoara, România, pp. 277-282.	0.25	2	15
17	Vlad Mureșan, Mihail Abrudean	“The Control of the Step for the Furnace with Rotary Hearth in the Technologic Flow for Manufacturing Pipes without Welding”, 2008 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), THETA 16, Proceedings-Tomell, 22-25 Mai, 2008, Cluj-Napoca, România, pp.258-261.	0.25	2	15
18	Vlad Mureșan, Mihail Abrudean	“Control of Rotary Hearth Furnace, using a Programmable Controller”, 2008 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), THETA 16, Proceedings-Tomell, 22-25 Mai, 2008, Cluj-Napoca, România, pp.262-266.	0.25	2	15
19	C. Lungoci, D. Moga, V. Mureșan, D. Petreus, N. Stroia, R. Moga, M. Munteanu, I. Raus, V. Muntean, A. I. Mironiuc	“Hyperthermic Intraperitoneal Chemotherapy Approach Based on Cyber-Physical System Paradigm”, Journal of Control Engineering and Applied Informatics (CEAI Journal), vol. 17, nr. 3, septembrie 2015, pp. 50-59.	0.537	10	3.574
20	Iulia Clitan, Mihail Abrudean, Vlad Mureșan	“The control of an industrial manipulator’s positioning system using Dahlin algorithm”, The 8th International Conference Interdisciplinarity in Engineering (INTER-ENG), 9 - 10 Octombrie 2014, Târgu Mureș, România, Procedia Technology Journal, vol. 19, Ed. Elsevier, 2015, pp. 541-546, ISSN 2212-0173.	0.25	3	10
21	I. Clitan, V. Mureșan, M. Abrudean, D. Moga, H. Valean, C. Lungoci, I.A. Mironiuc	“Flow and temperature control for an innovative Hyperthermic Intraperitoneal Chemotherapy Equipment”, 19th International Conference on System Theory, Control and Computing (ICSTCC), Cheile Grădiștei-Fundata, România, 14-16 Octombrie 2015, pp. 162-167.	0.25	7	4.285714286
22	I. Clitan, D. Moga, V. Mureșan, N. Stroia, C. Lungoci, V. Sita	“Digital Temperature Control for an Hyperthermic Intraperitoneal Chemotherapy Equipment”, 20th International Conference on Control Systems and Science (CSCS20), București, România, 27 –29 Mai 2015, pp. 98-103.	0.25	6	5

23	I. Clitan, D. Moga, V. Mureșan, N. Stroia, C. Lungoci, V. Sita, I.A, Mironiuc	"Design of a temperature controller for an hyperthermic intraperitoneal chemotherapy equipment", 10th Jubilee International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, România, 21-23 Mai 2015, pp. 49-54.	0.25	7	4.285714286
24	Vlad Mureșan, Mihail Abrudean, Tiberiu Coloși, Zoltan Kovendi, Mihaela-Ligia Ungureșan, Iulia Clitan	"Modeling and Simulation of the Carbene Dioxide Absorption Process in Ethanolamine Solution", The 20th International Conference on Control Systems and Computer Science (CSCS20), 27 –29 Mai, 2015, București, România, vol. 1, pag. 112 - 118.	0.25	6	5
25	Mihaela-Ligia Ungureșan, Vlad Mureșan, MihailAbrudean, Iulia Clitan, TiberiuColoși, Daniel Moga	"PID Control of a Chemical Absorption Process", The 20th International Conference on Control Systems and Computer Science (CSCS20), 27 –29 Mai, 2015, București, România, vol. 1, pag. 104 - 111.	0.25	6	5
26	Iulia Clitan, Vlad Muresan, Mihail Abrudean, Andrei Clitan, Radu Miron	"Position control of an industrial robot using fractional order controller", Proceedings of SPIE Vol. 10253, 2016 International Conference on Robotics and Machine Vision (ICRMV 2017), 14-16 Septembrie, 2016, Moscova, Rusia, pp. OE 1- OE 8 , 2017.	0.25	5	6
27	Daniel Moga, Dorin Petreuş, Vlad Mureșan, Nicoleta Stroia, Gloria Cosovici	"Optimal generation scheduling in islanded microgrids", IFAC Workshop on Control of Transmission and Distribution Smart Grids (CTDSG), 11-13 Ooctombrie 2016, Praga, Cehia, pp. 135-139.	0.25	5	6
28	Iulia Clitan, Mihail Abrudean,Vlad Mureșan, Diana Sas	"Optimizing the Casting Length of Single Diameter Steel Billets Based on Minimum Cost", Proceedings of 20th International Conference on System Theory, Control and Computing (ICSTCC 2016), 12-15 Octombrie, 2016, Sinaia, Romania, pp. 73-78, ISBN: 978-1-5090-2720-0.	0.25	4	7.5
29	Vlad Mureșan, Mihail Abrudean, Honoriu Vălean, Iulia Clitan, Mihaela-Ligia Ungureșan, Tiberiu Coloși, Adela Pușcașiu, Alexandra Fanca	"Temperature Modeling and Control in a Tunnel Heat-Treatment Furnace", 2016 20th International Conference on System Theory, Control and Computing (ICSTCC 2016), 13-15 Octombrie, Sinaia, Romania, pp. 245-250.	0.25	8	3.75
30	Iulia Clitan, Vlad Muresan, Tiberiu Coloși, Mihaela-Ligia Ungureșan	"Control structure design for an 18O isotope separation column", 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2016), 19-21 May 2016, pp. 1 – 6.	0.25	4	7.5
31	Vlad Mureșan, Mihail Abrudean, Mihaela-Ligia Ungureșan, Iulia Clitan, Tiberiu Coloși	"Modeling of the 18O isotope separation process", 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2016), 19-21 Mai, 2016, pp. 1 – 6.	0.25	5	6
32	Tiberiu Coloși, Mihail Abrudean, Mihaela-Ligia Ungureșan, Vlad Mureșan,	"Applications of (Mpd <sub>x</sub> ) method in the numerical simulation of distributed and lumped parameter processes, for isotopic separation columns", 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2016), 19-21 Mai, 2016, pp. 1 – 5.	0.25	4	7.5
33	Vlad Mureșan, Mihail Abrudean, Mihaela-Ligia Ungureșan, Iulia Clitan, Tiberiu Coloși,	"Control of the 18O isotope separation process", 2016 IEEE 11th International Symposium on Applied Computational Intelligence and Informatics (SACI 2016), 12-14 Mai, 2016, pp. 283 – 288.	0.25	5	6

34	Vlad Muresan, Iulia Clitan, Daniel Moga, Rozica Moga, Nicoleta Stroia, Gloria Cosovici, Corneliu Lungoci, Ion Mironiuc, Florian Neaga	"Modeling and Control of the Temperature for Cytostatic Solutions Used in Surgical Procedures", Proceedings of 2016 International Conference on Control, Decision and Information Technologies (CoDIT'16), 6-8 Aprilie, 2016, Malta, pp. 706-711.	0.25	9	3.333333333
35	Mihai Hulea, Radu Miron, Vlad Mureșan, Cosmin Marcu	"WiPlatform, a Sensing and Event Processing Platform", 2015 19th International Conference on System Theory, Control and Computing (ICSTCC 2015), 14-16 Octombrie, 2015, Cheile Grădiștei, România, pp. 314-317.	0.25	4	7.5
36	Vlad Muresan, Mihail Abrudean, Honoriu Vălean, Tiberiu Coloși, Mihaela-Ligia Ungureșan, Valentin Sita, Iulia Clitan, Daniel Moga	"Neural Modeling and Control of a 13C Isotope Separation Proces", 12th International Conference on Informatics in Control, Automation and Robotics (ICINCO), 21 – 23 Iulie 2015, Colmar, Franța, vol. 1, pp. 254-263.	0.25	8	3.75
37	Vlad Mureșan, Mihaela-Ligia Ungureșan, Codruța Varodi, J.Z. Szucs-Balazs	"Temperature influence over the absorption process of CO2 in octane", Proceedings 8th Romania Tier 2 Federation Grid, Cloud & High Performance Computing in Science (RO-LCG 2015), 28-30 Octombrie, 2015, Cluj-Napoca, România, ISBN:978-6-0673-7039-3.	0.25	4	7.5
38	Vlad Muresan, Mihail Abrudean, Daniel Moga,	"Modeling, Simulation and Control of a Nonlinear Distributed Parameter Isotope Separation Process", 9th IFAC Symposium on Control of Power and Energy Systems (CPES 2015), 9-11 Decembrie, 2015, New Delhi, India, pp. 191-196.	0.25	3	10
39	C. Lungoci, V. Murșan, D. Moga, I. Clitan, R. Moga, V. Sita, T. Oniu, I.A. Mironiuc	"Advanced temperature control for innovative HIPEC equipment", International Conference on Health and Social Care Information Systems and Technologies (HCist), Vilamoura, Algarve, Portugalia, 7-9 Octombrie 2015, Procedia Computer Science, vol. 64, 2015, pp. 497-505.	0.25	8	3.75
40	Ioan Valentin Sita, Petru Dobra, Daniel Moga, Radu Mănescu, Vlad Muresan, Iulia Clitan	"Optimization of Residential Heating Systems Using Accumulators", Proceedings of 15th International Conference On Environment And Electrical Engineering (IEEE EEEIC 2015), 10-13 Iunie, 2015, Roma, Italia, pp. 2165-2170, ISBN:978-1-4799-7992-9.	0.25	6	5
41	I. Clitan, V. Mureșan, D. Moga, V. Sita, C. Lungoci	"Measured Signal Identification and Temperature Controller Design for a HIPEC Device", 38th International Conference on Telecommunications and Signal Processing (TSP), Praga, Cehia, 9-11 Iulie 2015, pp. 304-308.	0.25	5	6

**Factor impact cumulat**  
**Total punctaj A2.1.**

10.8

**324.2937619**

**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	I. Clitan, V. Muresan, M. Abrudean	"Design of a discrete controller using the Dahlin algorithm for a direct-current motor speed control", in Journal of Computer Science & Control Systems, vol. 7, no. 2, pp. 13-18.	EBSCO	3	6.666666667

2	Vlad Mureșan, Mihail Abrudean, Tiberiu Coloși	"pH Control of the Residual Water in an Industrial Blunting System" Buletinul științific al Universității „POLITEHNICA” din Timișoara, România, Seria AUTOMATICĂ ȘI CALCULATOARE, Editura POLITEHNICA, Vol. 58(72), Nr. 2, Iunie 2013, pag. 101-110.	B+	3	6.666666667
3	Vlad Mureșan, Mihail Abrudean, Mihaela Ligia Ungureșan, Tiberiu Coloși	"Numerical simulation of the automatic control system of the residual water blunting process from a foundry" Buletinul științific al Universității „POLITEHNICA” din Timișoara, România, Seria AUTOMATICĂ ȘI CALCULATOARE, Editura POLITEHNICA, Vol. 57(71), Nr. 2, Iunie 2012, pag. 83-92.	B+	4	5
4	Vlad Mureșan, Mihail Abrudean, Tiberiu Colosi	"Temperature Simulation of the Billets from a Furnace with Rotary Hearth, Using Taylor Series" Buletinul științific al Universității „POLITEHNICA” din Timișoara, România, Seria AUTOMATICĂ ȘI CALCULATOARE, Editura POLITEHNICA, ISSN 1224-600X, Vol. 56(70), Nr. 4, Decembrie 2011, pag. 167-176.	B+	3	6.666666667
5	Vlad Mureșan	"Numerical Simulation of the Temperature in a Rotary Hearth Furnace, using Taylor Series" Buletinul științific al Universității „POLITEHNICA” din Timișoara, România, Seria AUTOMATICĂ ȘI CALCULATOARE, Editura POLITEHNICA, ISSN 1224-600X, Vol: 56(70) Nr: 2 / Iunie 2011, pag. 65-74.	B+	1	20
6	Vlad Mureșan, Mihail Abrudean	"Experimental Identification and Numerical Simulation of Thermal Processes Associated with the Furnace with Rotary Hearth", ACAM (Automation Computers Applied Mathematics), vol. 18(2009), Nr. 1, Editura MEDIAMIRA, pag. 31-43.	B+	2	10
7	Tiberiu Coloși, Mihail Abrudean, Mihaela Ungureșan, Vlad Mureșan	"Cascade PID control of some processes with distributed parameters through (Mpxd) method with approximating solutions", ICPS'13 (Convergence of Information Technologies and Control Methods with Power Systems), 22-24 Mai, Cluj-Napoca, România, 2013, pag. 21-28.	IFAC-PapersOnline	4	5
8	Vlad Mureșan, Mihail Abrudean	"The Control of the Billets Heating Process in a Furnace with Rotary Hearth", 8th Power Plant & Power System Control Symposium - PPPSC 2012 (IFAC Conference), 02 – 05 Septembrie, Toulouse, Franța, 2012, pag. 735-740.	IFAC-PapersOnline	2	10
9	Vlad Mureșan, Mihail Abrudean, Mihaela Ligia Ungureșan, Tiberiu Coloși	"Modeling of the blunting process of the residual water from a foundry", Proceedings of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2012) – TOME I, THETA 18 th edition, 24-27 Mai, 2012, Cluj-Napoca, România, pag. 166 – 171.	IEEE Xplore	4	5
10	Vlad Mureșan, Mihail Abrudean, Mihaela Ligia Ungureșan, Tiberiu Coloși	"Control of the blunting process of the residual water from a foundry", IEEE Proceedings SACI 2012, 7th IEEE International Symposium on Applied Computational Intelligence and Informatics, 24 – 26 Mai, Timișoara, România, 2012, 29 – 34.	IEEE Xplore	4	5
11	Vlad Mureșan, Mihail Abrudean, Tiberiu Colosi	"Modeling and Simulation of the billet's heating process in a furnace with rotary hearth", 15th International Conference on System Theory, Control and Computing (ICSTCC 2011), 14-16 Octombrie, 2011, Sinaia, România, pag. 1-6.	IEEE Xplore	3	6.666666667

12	Vlad Mureșan, Mihail Abrudean, Tiberiu Coloși	"Numerical Simulation of the Billet's Temperature in a Furnace with Rotary Hearth", IEEE Proceedings SACI 2011, 6th IEEE International Symposium on Applied Computational Intelligence and Informatics, 19 – 21 Mai, Timișoara, România, pag. 23 – 28.	IEEE Xplore	3	6.666666667
13	Vlad Mureșan, Mihail Abrudean	"Temperature Modelling and Simulation in the Furnace with Rotary Hearth", Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2010) – TOME I, THETA 17 th edition, 28-30 Mai, 2010, Cluj-Napoca, România, pag. 147-152.	IEEE Xplore	2	10
14	Vlad Mureșan, Mihail Abrudean	"Temperature Control in the Furnace with Rotary Hearth", Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2010) – TOME I, THETA 17 th edition, 28-30 Mai, 2010, Cluj-Napoca, România, pag. 225-230.	IEEE Xplore	2	10
15	Vlad Mureșan	"Mathematical Modelling and Numerical Simulation of the Temperature Control System in a Furnace with Rotary Hearth", IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics (ICCC-CONTI 2010), 27-29 Mai, 2010, Timișoara, România, pp. 203-208.	IEEE Xplore	1	20
16	I. Clitan, M. Abrudean, V. Mureșan, D. Moga, C. Lungoci	"Cytostatic Solution's Flow Control for a Hyperthermic Intraperitoneal Chemotherapy Device", 6th International Conference on Aerospace, Robotics, Biomechanics, Neurorehabilitation, Human motricities, Mechanical Engineering and Manufacturing Systems (ICMERA), 29-31 Octombrie, București, Romania, Applied Mechanics and Materials, vol .811, 2015, pp. 359-364, Trans Tech Publications, Switzerland.	Scientific.net	5	4
17	M.-L. Unguresan, V. Muresan, M. Abrudean, I. Clitan, T. Colosi	"Modeling and simulation of the gas absorption process in the liquid phase", in Applied Mechanics and Materials, vol. 656, pp. 81-94, 2014.	Scientific.net	5	4
18	I. Clitan, C. Lungoci, V. Mureșan, D. Moga, V. Sita	"A Robust Temperature Controller Design for an Innovative Hyperthermic Intraperitoneal Chemotherapy Equipment", 12th International Conference on Informatics in Control, Automation and Robotics (ICINCO), vol. 2, Colmar, Franța, 21 – 23 Iulie, 2015, pp. 84-91.	SCOPUS	5	4
19	I. Clitan, D. Moga, C. Lungoci, V. Mureșan, N. Stroia	"Experimental Identification of Heating Process from Hyperthermic Intra-Peritoneal Chemotherapy (HIPEC) Equipment", The 10th edition of the International Concurrence on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics and Robots for Neurorehabilitation (OPTIROB), 27 -29 Iunie, Jupiter, România, Applied Mechanics and Materials, vol. 772, 2015, pp. 626-630, Trans Tech Publications, Switzerland.	Scientific.net	5	4



20	Vlad Mureșan, Mihail Abrudean, Iulia Clitan, Zoltan Kovendi, Mihaela-Ligia Ungureșan, Tiberiu Coloși	"Control of a Chemical Exchange Process for the 13C Isotope Enrichment", The 10th edition of the International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics and Robots for Neurorehabilitation (OPTIROB), Jupiter, România, Applied Mechanics and Materials, vol. 772, 2015, pp. 20-26, Trans Tech Publications, Switzerland.	Scientific.net	6	3.333333333
21	Zoltan Kovendi, Vlad Mureșan, Mihail Abrudean, Iulia Clitan, Mihaela-Ligia Ungureșan, Tiberiu Coloși	"Modeling a Chemical Exchange Process for the 13C Isotope Enrichment", The 10th edition of the International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics and Robots for Neurorehabilitation (OPTIROB), 27-29 Iunie, Jupiter, România, Applied Mechanics and Materials, vol. 772, 2015, pp. 27-32, Trans Tech Publications, Switzerland.	SCOPUS	6	3.333333333
22	I. Clitan, V. Muresan, M. Abrudean, A. Clitan	"Discrete control for an industrial manipulator using both dahlin algorithm and internal model control design approaches", in Applied Mechanics and Materials, vol. 656, pp. 360-368, 2014.	Scientific.net	4	5
23	Vlad Mureșan, Adrian Groza, Mihail Abrudean, Tiberiu Coloși	"Numerical Simulation and Automatic Control of the pH Value in an Industrial Blunting System", 11th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2014), 1-3 Septembrie 2014, Viena, Austria, pag. 540-549.	SCOPUS	4	5
24	Sfechis S., Abrudean M., Sas D., Unguresan M.L., Clitan I., Mureșan V.	„ Modeling and Simulation of the Sulfur Dioxide Adsorption Process in Natural Zeolites”, 6th International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Neurorehabilitation and Human Motricities (ICMERA), 29-31 Octombrie, București, România, Applied Mechanics and Materials, vol. 811, 2015, pp. 35 -42, Trans Tech Publications, Switzerland.	Scientific.net	6	3.333333333
25	Mureșan V., Abrudean M., Colosi T., Bondici C., Clitan I., Unguresan M.L., Secara M.	„Modeling and Simulation of a Hydroelectric Process”, 6th International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Neurorehabilitation and Human Motricities (ICMERA), 29-31 Octombrie, București, România, Applied Mechanics and Materials, vol. 811, 2015, pp. 133 -141, Trans Tech Publications, Switzerland.	Scientific.net	7	2.857142857
26	V. Muresan, A. Groza, B. Iancu, I. Clitan	"Simulation and control of the vehicles movement in the case of the overtaking procedures", in Applied Mechanics and Materials, vol. 656, pp. 423-431, 2014.	Scientific.net	4	5
27	Vlad Mureșan, Mihail Abrudean, Honoriu Vălean, Mihaela-Ligia Ungureșan, Tiberiu Coloși	"Tuning a neural controller with distributed parameters", in Applied Mechanics and Materials, Vol. 555, 2014, pag. 341-351.	Scientific.net	6	3.333333333
28	Mihaela-Ligia Ungureșan, Vlad Mureșan	"PID Control System for a Distributed Parameter Process", in Applied Mechanics and Materials, Vol. 555, 2014, pag. 222-231.	Scientific.net	2	10
29	Iulia Clitan, Mihail Abrudean, Vlad Mureșan	"Design of Neural Network Controllers for the Horizontal Positioning of an Industrial Manipulator", in Applied Mechanics and Materials, Vol. 555, 2014, pag. 281-287.	Scientific.net	3	6.666666667

30	Ioan-Valentin Sita, Vlad Mureșan	"Neural Temperature Control in a Water Cylinder", in Applied Mechanics and Materials, Vol. 555, 2014, pag. 466-475.	Scientific.net	2	10
31	Honoriu Vălean, Mihail Abrudean, Mihaela-Ligia Ungureșan, Iulia Clitan, Vlad Mureșan	"Modeling of Distributed Parameter Processes With Neural Networks", in Applied Mechanics and Materials, Vol. 555, 2014, pag. 530-54,.	Scientific.net	5	4
32	Vlad Mureșan, Dan Cristian Colosi, Horatiu Alexandru Colosi, Nicolae Marius Roman	"PID Control of a Distributed Parameter Biological Process", International Conference on Advancements of Medicine and Health Care through Technology; 5 – 7 Iunie, 2014, Cluj-Napoca, România, IFMBE Proceedings Vol. 44, Editura SPRINGER, 2014, pp 223-228.	IFMBE (Springer Link)	4	5
33	Nicolae Marius Roman, Horatiu Alexandru Colosi, Dan Cristian Colosi, Vlad Mureșan	"Approximation Method of the Temperature Propagation Parameters in Biological Media", International Conference on Advancements of Medicine and Health Care through Technology; 5 – 7 Iunie, 2014, Cluj-Napoca, Romania, IFMBE Proceedings Volume 44, Editura SPRINGER, 2014, pp 219-222.	IFMBE (Springer Link)	4	5
34	Iulia Clitan, Vlad Mureșan, Mihail Abrudean, Daniel Moga, Corneliu Lungoci	"Hyperthermic Intraperitoneal Chemotherapy Equipment's Temperature Control Structure Design using Model Based Techniques", Scientific Bulletin of The Politehnica University of Timisoara, 60 (74), 2015, pp. 47-56.	B+	5	4
35	Olimpia Bunta, Vlad Mureșan, Diana Sas, Tiberiu Coloși	"Time and space constants in the orthodontic dynamics", 2017 14th International Conference on Engineering of Modern Electric Systems (EMES 2017), 1-2 Iunie, 2017, Oradea, România, pp. 200-203.	SCOPUS	4	5
36	Olimpia Bunta, Vlad Mureșan, Diana Sas, Tiberiu Coloși	"Mathematical formalisms used in the orthodontic dynamics", 2017 14th International Conference on Engineering of Modern Electric Systems (EMES 2017), 1-2 Iunie, 2017, Oradea, România, pp. 196-199.	SCOPUS	4	5
37	Vlad Mureșan, Mihail Abrudean, Honoriu Vălean, Iulia Clitan, Mihaela-Ligia Ungureșan, Tiberiu Coloși, Diana Sas, Adela Pușcașiu, Alexandra Fanca	"Pipes temperature control in an annealing furnace", 2017 18th International Carpathian Control Conference (ICCC 2017), 28-31 Mai, 2017, Sinaia, România, pp. 423-428.	SCOPUS	9	2.22222222
38	Iulia Clitan, Vlad Mureșan, Mihail Abrudean, Diana Sas	"Automatic Determination of Optimal Length of Casting Steel Blocks in the Context of an Imprecise Manufacturing", 2017 21st International Conference on Control Systems and Computer (CSCS 2017), 29-31 Mai, 2017, București, România, pp. 99-105.	SCOPUS	4	5
39	Mihaela Unguresan, Vlad Mureșan, Mihail Abrudean, Iulia Clitan	"Advanced Temperature Control in a Heat-Treatment Furnace", Proceedings of the 4th International conference on Control, Mechatronics and Automation (ICMA), 7-11 Decembrie, 2016, Barcelona, Spania, pp. 140-146.	SCOPUS	4	5
40	Tiberiu Coloși, Vlad Mureșan, Olimpia Nemeș, M. Olt, Nicolae Marius Roman	"Simulation of Teeth Movement in the Case of Orthodontic Treatment Procedures", MEDITECH Conference, IFMBE Proc., Vol. 59, 12-15 October 2016, pp. 165-170.	IFMBE (Springer Link)	5	4
41	Vlad Mureșan, Mihail Abrudean, Iulia Clitan, Mihaela-Ligia Ungureșan, Tiberiu Coloși	"Temperature Control in an Annealing Furnace, Using the IMC Strategy", ICMERA 2016, Applied Mechanics and Materials, Vol. 859, pp. 124-128.	Scientific.net	5	4

42	Iulia Clitan, Vlad Muresan, Mihail Abrudean, Diana Sas	"Optimization of the Casting Length of Billets and Computation of Minimum Number of Steel Batches", Proceedings of 7th International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Neurorehabilitation and Human Motricities (ICMERA 2016), 4-6 Noiembrie, 2016, București, România, Applied Mechanics and Materials, vol. 859, 2017, pp. 177-182, ISSN 1662-7482.	Scientific.net	4	5
43	Diana Sas, Iulia Clitan, Mihail Abrudean, Vlad Muresan, Tiberiu Colosi	"Optimization of the Number of Steel Billets that Need to Be Casted in a Charge Using Simplex Method", Proceedings of 7th International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Neurorehabilitation and Human Motricities (ICMERA 2016), 4-6 Noiembrie, 2016, București, România, Applied Mechanics and Materials, vol. 859, 2017, pp. 183-187, ISSN 1662-7482.	Scientific.net	5	4
44	Vlad Mureșan, Mihail Abrudean, Tiberiu Coloși, Iulia Clitan, Cristian Bondici, Mihaela-Ligia Ungureșan, Valentin Sita	"Real Power and Frequency Control – Case Study for a Synchronous Generator from the Structure of a Hydroelectric Power Plant", OPTIROB 2016, Applied Mechanics and Materials, Vol. 841, pp. 122-129, 2016.	Scientific.net	7	2.857142857
45	Iulia Clitan, Vlad Muresan, Andrei Clitan, Mihail Abrudean	"Fractional Order Model Identification for a Billet Unloading Robotic Arm", Proceedings of 11th edition of the International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics and Robots for Neurorehabilitation (OPTIROB), 29 Iunie – 2 Iulie, 2016, Jupiter, România, Applied Mechanics and Materials, vol. 841, 2016, pp. 234-239, ISSN: 1662- 7482.	Scientific.net	4	5

**Total punctaj A2.2.**

**272.2698413**

**A2.4.1.2. Granturi/proiecte castigate prin competitie: Director de proiect**

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	National	Proiect de tip BD: "Controlul avansat al proceselor metalurgice de producere a țevelor de oțel fără sudură. Aplicație în cadrul firmei Tenaris Silcotub Zalău" – castigat prin competitie nationala: CNCSIS (339/2008); Valoare: 54000 LEI	2008-2011	3	30
2	National	Proiect de tip Cec de inovare: "Modul embedded pentru controlul avansat al presiunii in spatii protejate" - castigat prin competitie nationala: UEFISCDI (NR. 75CI / 2017) , Valoare: 50000 LEI	2017	1	10
3	National	"Simularea curbei de revenire, proces metalografic" (aplicației Tenaris Silcotub Zalău); Valoare 82500 LEI	2015-2016	1	0
4	National	"Dezvoltarea unui echipament pentru chimio–hipertermie prin paradigma cyber–physical systems, folosind tehnici avansate de modelare" ; Valoare: 30000 LEI	2014-2015	1	0

**Total punctaj A2.4.2**

**40**

**A2.4.2.2. Granturi/proiecte castigate prin competitie: membru in echipa**

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	National	"Sisteme integrate pentru conducerea în timp real în rețea a proceselor" - CNCSIS nr. 71-084/2007-2010, Valoare: 2000000 lei;	2007-2010	3	6
2	National	"Cercetarea și dezvoltarea în domeniul automatizării și informaticii aplicate, terți TenarisSilcotub Zalău"	2009	1	0
3	National	"Laborator mobil de automatizare, terți TenarisSilcotub Zalău"	2009	1	0
4	National	"Platformă înglobată pentru controlul unui sistem de răcire termică solară adecvat aplicațiilor de răcire la scară mică/medie"	2014-2015	1	0
5	National	"Învață Automatica"	2010-2013	3	0
6	National	„Echipament de chimiohipertermie intraperitoneală dezvoltat prin paradigma Cyber-Physical System (HIPER-CPS)", TE (2014) nr. 357/01.10.2015, Valoare: 530000 lei	2015-2017	3	6

**Total punctaj A2.4.2**
**12**
**A3.1.1. Citari in carti, reviste si volume ale unor manifestari stiintifice (carti, ISI)**

Nr.	Articol citat	Articol care citeaza	Numar autori art.citat	Punctaj
1	Tiberiu Coloși, Mihail Abrudean, Mihaela Ungureșan, Vlad Mureșan, "Numerical simulation of distributed parameter processes", Editura SPRINGER, 2013, 363 pagini.	Iulia Inoan, Andrei Florin Clitan, "A Classic Controller Design for a Billet's Unloading Machine Using the IMC Approach", The 7th International Conference Interdisciplinarity in Engineering, INTER-ENG 2013, 10-11 Octombrie, 2013, Universitatea Petru Maior din Tîrgu Mures, România, Vol. 12, pag. 28–33.	4	2
2		Diana Monica Sas, Mihaela-Ligia Ungureșan, Tiberiu Coloși, Mihai Secară, "Process modeling and simulation of distributed parameter using (MpdX) method with approximating solutions", IEEE International Conference on Automation, Quality and Testing, Robotics, 2014 (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 57-62.	4	2
3		Mihai Secara, Mihail Abrudean, Maria Loredana Boca, Bogdan Croitoru, "The experimental identification of the separation cascade of (18O) in the NO, NO2 — H2O, HNO3 system", 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, Romania, pag. 1-4.	4	2
4	Tiberiu Coloși, Mihail Abrudean, Mihaela-Ligia Ungureșan, Vlad Mureșan, "Examples of numerical Simulation for systems with distributed and lumped parameters through the MpdX method with approximating solutions", Editura UTPRESS, Cluj-Napoca, Romania, 2013, 98 pagini.	Diana Monica Sas, Mihaela-Ligia Ungureșan, Tiberiu Coloși, Mihai Secară, "Process modeling and simulation of distributed parameter using (MpdX) method with approximating solutions", IEEE International Conference on Automation, Quality and Testing, Robotics, 2014 (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 57-62.	4	2

5	Tiberiu Coloși, Mihail Abrudean, Mihaela Ungureșan, Vlad Mureșan, "PID Control of distributed parameter processes through the (Mpdx) method with approximating solutions", ICPS'13 (Convergence of Information Technologies and Control Methods with Power Systems), 22-24 Mai, Cluj-Napoca, România, 2013,	Diana Monica Sas, Mihaela-Ligia Ungureșan, Tiberiu Coloși, Mihai Secară, "Process modeling and simulation of distributed parameter using (Mpdx) method with approximating solutions", IEEE International Conference on Automation, Quality and Testing, Robotics, 2014 (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 57-62.	4	2
6	V. Muresan, M. Abrudean, M.-L. Ungureșan, T. Coloși, "Cascade Control of a Residual Water Blunting System", Advances in Electrical and Computer Engineering, Page(s): 135 – 144, Suceava, România 2014	D. Sas, Z. Kovendi, "Preliminaries in (Mpdx) method associated with Cohen equations", 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Cluj-Napoca, Romania, ISBN: 978-1-4673-8692-0	4	2
7	Vlad Mureșan, "Numerical Simulation of the Temperature in a Rotary Hearth Furnace, using Taylor Series" Buletinul științific al Universității „POLITEHNICA“ din Timișoara, România, Seria AUTOMATICĂ ȘI CALCULATOARE, Editura POLITEHNICA, ISSN 1224-600X , Vol: 56(70) Nr: 2 / Iunie 2011, pag. 65-74.	Cristina Ile, "The Implementation of Process Capability: A Case Study in a Wood Industry Company", IEEE International Conference on Automation, Quality and Testing, Robotics, 2014 (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 184-188.	1	8
8		Diana Monica Sas, Mihaela-Ligia Ungureșan, Tiberiu Coloși, Mihai Secară, "Process modeling and simulation of distributed parameter using (Mpdx) method with approximating solutions", IEEE International Conference on Automation, Quality and Testing, Robotics, 2014 (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 57-62.	1	8
9		Cristina Ile, "Analyze the Process Capability: A Case Study", Applied Mechanics and Materials, Vol. 436, 2013, pag 311-317.	1	8
10		Ioan Valentin Sita, Petru Dobra, "Universal Communication Node for Building Automation Systems", Applied Mechanics and Materials, Vol. 436, 2013, pag 435-444.	1	8
11		Iulia Inoan, Mihail Abrudean, "Control of an Induction Motor Using the Relay Method Approach", Journal of Control Engineering and Applied Informatics (CEAI Journal), Vol 16, Nr .3, 2014, pag. 13-22.	1	8
12		D. Sas, M. Secara, "Preliminaries in numerical simulation of isotope separation open-loop processes", 2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-4799-7650-8	1	8

13		D. Sas, M. Secara, "Preliminaries in numerical simulation of isotope separation closed-loop processes", 2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-4799-7650-8	1	8
14		D. Sas, Z. Kovendi, "Preliminaries in (Mpdx) method associated with Cohen equations", 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Cluj-Napoca, Romania, ISBN: 978-1-4673-8692-0	1	8
15	Vlad Mureșan, "Conducerea proceselor industriale Îndrumător de laborator", Editura U.T. PRESS, Cluj-Napoca 2011, 134 pagini.	D. Sas, M. Secara "Preliminaries in numerical simulation of isotope separation open-loop processes", 2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-4799-7650-8	1	8
16		Diana Monica Sas, Mihaela-Ligia Ungureșan, Tiberiu Coloși, Mihai Secară, "Process modeling and simulation of distributed parameter using (Mpdx) method with approximating solutions", IEEE International Conference on Automation, Quality and Testing, Robotics, 2014 (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 57-62.	1	8
17		Iulia Inoan, Mihail Abrudean, "Control of an Induction Motor Using the Relay Method Approach", Journal of Control Engineering and Applied Informatics (CEAI Journal), Vol 16, Nr .3, 2014, pag. 13-22.	1	8
18		D. Sas, M. Secara, "Preliminaries in numerical simulation of isotope separation closed-loop processes", 2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-4799-7650-8	1	8
19		D. Sas, Z. Kovendi, Preliminaries in (Mpdx) method associated with Cohen equations 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Cluj-Napoca, Romania, ISBN: 978-1-4673-8692-0	1	8
20	Vlad Mureșan, "Mathematical Modelling and Numerical Simulation of the Temperature Control System in a Furnace with Rotary Hearth", IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics (ICCC-CONTI 2010), 27-29 Mai, 2010, Timișoara, România, pp. 203-208, ISBN: 978-1-4244-7431-8.	D. Sas, M. Secara, "Preliminaries in numerical simulation of isotope separation open-loop processes", 2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-4799-7650-8	1	8
21		D. Sas, Z. Kovendi, "Preliminaries in (Mpdx) method associated with Cohen equations", 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Cluj-Napoca, Romania, ISBN: 978-1-4673-8692-0	1	8

22		D. Sas, M. Secara, "Preliminaries in numerical simulation of isotope separation closed-loop processes"m 2015 International Conference on Engineering of Modern Electric Systems (EMES) Oradea, Romania, ISBN: 978-1-4799-7650-8	1	8
23		Diana Monica Sas, Mihaela-Ligia Ungureșan, Tiberiu Coloși, Mihai Secară, "Process modeling and simulation of distributed parameter using (Mpdx) method with approximating solutions", IEEE International Conference on Automation, Quality and Testing, Robotics, 2014 (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 57-62.	1	8
24		Ioan Valentin Sita, Petru Dobra, "Universal Communication Node for Building Automation Systems", Applied Mechanics and Materials, Vol. 436, 2013, pag 435-444.	1	8
25		Iulia Inoan, Mihail Abrudean, "Control of an Induction Motor Using the Relay Method Approach", Journal of Control Engineering and Applied Informatics (CEAI Journal), Vol 16, Nr .3, 2014, pag. 13-22.	1	8
26	Vlad Mureșan, Mihail Abrudean, "Temperature Modelling and Simulation in the Furnace with Rotary Hearth" Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2010) – TOME I, THETA 17 th edition, 28-30 Mai, 2010, Cluj-Napoca, România, pag. 147-152.	Iulia Clitan, Ionuț Muntean, "Internal model control for a hydraulically driven robotic arm", 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 1-5.	2	4
27	Vlad Mureșan, Mihail Abrudean, "Control System Optimization of Rotary Hearth Furnace Charging/Discharging", 5th International Symposium on Applied Computational Intelligence and Informatics (SACI 2009 IEEE PROCEEDINGS), 28-29 Mai, 2009, Timișoara, România, pp. 277-282.	Iulia Clitan, Ionuț Muntean, "Internal model control for a hydraulically driven robotic arm", 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 1-5.	2	4
28		Iulia Inoana, Andrei Florin Clitan, "A Classic Controller Design for a Billet's Unloading Machine Using the IMC Approach", The 7th International Conference Interdisciplinarity in Engineering, INTER-ENG 2013, 10-11 Octombrie, 2013, Universitatea Petru Maior din Tîrgu Mures, România, Vol. 12, pag. 28–33.	2	4

29	Vlad Mureșan, Mihail Abrudean, "The Control of the Step for the Furnace with Rotary Hearth in the Technologic Flow for Manufacturing Pipes without Welding", 2008 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), THETA 16, Proceedings-Tomell, 22-25 Mai, 2008, Cluj-Napoca, România, pp.258-261,	Iulia Clitan, Ionuț Muntean, "Internal model control for a hydraulically driven robotic arm", 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, (AQTR 2014), 22-24 Mai, 2014, Cluj-Napoca, România, pag. 1-5.	2	4
30		Iulia Inoan, Andrei Florin Clitan, "A Classic Controller Design for a Billet's Unloading Machine Using the IMC Approach", The 7th International Conference Interdisciplinarity in Engineering, INTER-ENG 2013, 10-11 Octombrie, 2013, Universitatea Petru Maior din Tîrgu Mures, România, Vol. 12, pag. 28–33.	2	4
31		Iulia Inoan, Mihail Abrudean, "Control of an Induction Motor Using the Relay Method Approach", Journal of Control Engineering and Applied Informatics (CEAI Journal), Vol 16, Nr .3, 2014, pag. 13-22.	2	4
32	Vlad Mureșan, Mihail Abrudean, "Control System Optimization of Rotary Hearth Furnace Charging/Discharging", 5th International Symposium on Applied Computational Intelligence and Informatics (SACI 2009 IEEE PROCEEDINGS), 28-29 Mai, 2009, Timișoara, România, pp. 277-282.	Iulia Inoan, Mihail Abrudean, "Control of an Induction Motor Using the Relay Method Approach", Journal of Control Engineering and Applied Informatics (CEAI Journal), Vol 16, Nr .3, 2014, pag. 13-22.	2	4

**Total punctaj A3.1.1.**

**192**

**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	Vlad Mureșan, "Conducerea proceselor industriale Îndrumător de laborator", Editura U.T. PRESS, Cluj-Napoca 2011, 134 pagini.	Iulia Inoan, Mihail Abrudean, "Design of NARMA-L2 Neural controller for an Induction Motor's Speed Control", Journal of Computer Science & Control Systems, Octombrie 2013, Vol. 6 Issue 2, pag. 18-21.	1	4
2		Violeta Firescu, "Reaserch Regarding the Optimization of Work Relationships within Supply Chain by Defining and Evaluating Job Competencies", Applied Mechanics and Materials, Vol. 555, 2014, pag. 805-810.	1	4
3		Cristian-Bogdan Rusu, Corneliu Lungoci, Daniel Moga, Gloria Cosovici, Nicoleta Stroia, "Modelling a Temperature Calibration System for Medical Probes", CSCS 2017, 29-31 Mai 2017, Bucuresti,Romania.	1	4



4	Vlad Mureșan, Mihail Abrudean, "Temperature Control in the Furnace with Rotary Hearth", Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2010) – TOME I, THETA 17 th edition, 28-30 Mai, 2010, Cluj-Napoca, România, pag. 225-230.	Iulia Inoan, Mihail Abrudean, "Design of NARMA-L2 Neural controller for an Induction Motor's Speed Control", Journal of Computer Science & Control Systems, Octombrie 2013, Vol. 6 Issue 2, pag. 18-21.	2	2
5	Vlad Mureșan, "Mathematical Modelling and Numerical Simulation of the Temperature Control System in a Furnace with Rotary Hearth", IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics (ICCC-CONTI 2010), 27-29 Mai, 2010, Timișoara, România, pp. 203-208.	Iulia Inoan, Mihail Abrudean, "Design of NARMA-L2 Neural controller for an Induction Motor's Speed Control", Journal of Computer Science & Control Systems, Octombrie 2013, Vol. 6 Issue 2, pag. 18-21.	1	4
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7		Violeta Firescu, "Reaserch Regarding the Optimization of Work Relationships within Supply Chain by Defining and Evaluating Job Competencies", Applied Mechanics and Materials, Vol. 555, 2014, pag. 805-810.	1	4
8		Radu-Florin Miron, Mihail Hulea, "Access Control Based on a Distributed Fingerprint Recognition System", Applied Mechanics and Materials, Vol. 555, 2014, pag. 759-764.	1	4
9		Cristian-Bogdan Rusu, Corneliu Lungoci, Daniel Moga, Gloria Cosovici, Nicoleta Stroia, "Modelling a Temperature Calibration System for Medical Probes", CSCS 2017, 29-31 Mai 2017, Bucuresti,Romania.	1	4
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14		Iulia Inoan, Dan C. Dumitrache, Mihail Abrudean, "Neural Networks Approach in Modelling of an Unloading Arm Positioning System", The 5th International Conference INTERENG 2011, Interdisciplinarity in Engineering, 3 - 5 Noiembrie, 2011, Tîrgu Mureş, România, pag. 35-40,	2	2
15	Vlad Mureşan, Mihail Abrudean, "Control System Optimization of Rotary Hearth Furnace Charging/Discharging", 5th International Symposium on Applied Computational Intelligence and Informatics (SACI 2009 IEEE PROCEEDINGS), 28-29 Mai, 2009, Timișoara, România, pp. 277-282.	Iulia Inoan, Dan C. Dumitrache, Mihail Abrudean, "Neural Networks Approach in Modelling of an Unloading Arm Positioning System", The 5th International Conference INTERENG 2011, Interdisciplinarity in Engineering, 3 - 5 Noiembrie, 2011, Tîrgu Mureş, România, pag. 35-40.	2	2
16		Iulia Inoan, Dan C. Dumitrache, Mihail Abrudean, "Unloading arm movement modeling using neural networks for a rotary hearth furnace", Scientific Bulletin of the "Petru Maior" University of Tîrgu Mureş, vol. 8 (XXV), nr. 2, 2011, pag. 44-48.	2	2
17	Vlad Mureşan, Mihail Abrudean, "Experimental Identification and Numerical Simulation of Thermal Processes Associated with the Furnace with Rotary Hearth", ACAM (Automation Computers Applied Mathematics), vol. 18(2009), Nr. 1, Editura MEDIAMIRA, pag. 31-43.	Claudiu Raul Costea, Helga Silaghi, "Wind Speed Model Prediction Using Linear Parametric Models", Journal of Computer Science & Control Systems, Mai 2013, Vol. 6, Issue 1, pag. 26-29.	2	2

18	Vlad Mureșan, Mihail Abrudean, "The Control of the Step for the Furnace with Rotary Hearth in the Technologic Flow for Manufacturing Pipes without Welding", 2008 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), THETA 16, Proceedings-Tomell, 22-25 Mai, 2008, Cluj-Napoca, România, pp.258-261.	Iulia Inoan, Mihail Abrudean, "Design of NARMA-L2 Neural controller for an Induction Motor's Speed Control", Journal of Computer Science & Control Systems, Octombrie 2013, Vol. 6 Issue 2, pag. 18-21.	2	2
19	Vlad Mureșan, Mihail Abrudean "Control of Rotary Hearth Furnace, using a Programmable Controller", 2008 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), THETA 16, Proceedings-Tomell, 22-25 Mai, 2008, Cluj-Napoca, România, pp.262-266.	Xiaodong Zhang, Xiujuan Li, Ke Lu, "Automation system for optimization of vulcanization accelerator production", 2010 International Conference on Intelligent Systems and Knowledge Engineering (ISKE), 15-16 Noiembrie, 2010, Hangzhou, China, pag. 584 – 587.	2	2
20	Titlu teză: „Controlul proceselor metalurgice de producere a țevilor din oțel fără sudură. Aplicație în cadrul firmei Tenaris Silcotub Zalău”, Conducător științific: Prof. dr. ing. Mihail Abrudean, autor: prep. ing. Vlad Mureșan Universitatea Tehnică din Cluj-Napoca Susținere publică: 10 iulie 2010, ordin confirmare nr. 5729/ 24 noiembrie 2010.	Violeta Firescu, "Reaserch Regarding the Aspects that Determine Emplpyees to Adopt a Work Performance-Oriented Behavior", Applied Mechanics and Materials, Vol. 436, 2013, pag 563-570.	1	4
21	Ioan-Valentin Sita, Petru Dobra, Mirela Dobra, Vlad Mureșan, "Household Water Tank Temperature Control", Applied Mechanics and Materials, Vol. 436, 2013, pag. 417-426,	Violeta Firescu, "Reaserch Regarding the Optimization of Work Relationships within Supply Chain by Defining and Evaluating Job Competencies", 9th International Conference on Modeling and Optimization of the Aerospace, Robotics, Mechatronics, Machines-Tools, Mechanical Engineering and Human Motricity Fields, (OPTIROB 2014), 26-29 Iunie, 2014, Mangalia, România, Applied Mechanics and Materials, Vol. 555, 2014, pag. 805-810.	4	1

**Total punctaj A3.1.2.**

**59**

**A3.3. Membru in colectivele de redactie sau comitete stiintifice, ale revistelor, organizator de manifestari stiintifice, internationale indexate ISI**

Nr.	Nume manifestare	URL	Tip (ISI/BDI)	Punctaj
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1	2014 IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2014 - THETA 19th edition May 22-24 2014 Cluj-Napoca, Romania	<a href="http://www.aqtr.ro/">http://www.aqtr.ro/</a>	ISI	10
2	2012 IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2012 May 22-24 2014 Cluj-Napoca, Romania	<a href="http://www.aqtr.ro/">http://www.aqtr.ro/</a>	BDI	6
3	2 IFAC Workshop on CONVERGENCE of INFORMATION TECHNOLOGIES and CONTROL METHODS with POWER SYSTEMS ICPS'13	<a href="http://icps13.conference.utcluj.ro/">http://icps13.conference.utcluj.ro/</a>	BDI	6
4	2016 IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2014 - THETA 19th edition May 22-24 2014 Cluj-Napoca, Romania	<a href="http://www.aqtr.ro/">http://www.aqtr.ro/</a>	ISI	10

**Total punctaj A3.4.2.**

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**A3.4.1. Premii internationale in domeniul**

<b>Nr.</b>	<b>Anul</b>	<b>Descriere premiu</b>	<b>Punctaj</b>
1	2014	Best Paper Award, for the paper "Simulation and control of the vehicles movement in the case of the overtaking procedures" presented at ICMERA 2014 (International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Neurorehabilitation, Human Motricities), 2014. ☒	15
2	2014	Best Paper Award, for the paper "Modeling and simulation of the gas absorption process in the liquid phase" presented at ICMERA 2014 (International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Neurorehabilitation, Human Motricities), 2014.	15

3	2015	Best Paper Award, for the paper "Modeling a Chemical Exchange Process for the 13C Isotope Enrichment" presented at The 10th edition of the International Conference on Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics and Robots for Neurorehabilitation (OPTIROB), 27 -29 Iunie, Jupiter, România, 2015	15
4	2016	Best Paper Award, for the paper "Temperature Control in an Annealing Furnace, Using the IMC Strategy" presented at ICMERA 2016,	15

**Total punctaj A3.4.1.**

**60**

Data 31.08.2017

Conf. Dr. Ing. Vlad Muresan



