Fisa de verificare a standardelor minimale stabilite prin OM nr. 6129/2016

Candidat

Domeniul **Calculatoare si Tehnologia Informatiei; Ingineria Sistemelor**

Nr. Crt	Domeniul activ.	Criteriu		Subcategorii		Indicatori (kpi)	Numar	Punctaj
1	Activitatea didactica si profesionala (A1)	Cărţi de autor sau capitole [1] de specialitate la edituri cu ISBN		A1.1.1.	Internationale	50/nr autori sau 100/nr. autori cu condiţia[2]	8	111.25
				A1.1.2	Nationale	50/nr autori	0	0.00
		Material didactic/Lucrări didactice publicate la edituri cu ISBN		A1.2.1		40/nr autori	1	13.33
						Total punctaj A(1)		**124.58**
2	Activitatea de cercetare (A2)	Articole în reviste cotate ISI, şi lucrări în volumele unor manifestări ştiinţifice indexate ISI		A2.1		(25+30 * factor impact [3]) / nr. de autori	107	1764.30
		Articole în reviste şi în volumele unor manifestări ştiinţifice indexate în alte baze de date internaţionale recunoscute (BDI)[4]		A2.2		20 / nr. de autori	17	89.86
		Proprietate intelectiala, brevete de inventie, certificate ORDA		A2.3.1	Internationale [5]	35 / nr. de autori	0	0.00
				A2.3.2	nationale	25 / nr. de autori	0	0.00
		Granturi/proiecte de cercetare câştigate pin competiţie [6] sau Contracte cu agenţi economici, în valoare de minimum 10.000 dolari USA echivalent încasaţi [6]	Director / responsabil	A2.4.1.1	Internationale	20 * ani de desfasurare	0	0.00
				A2.4.1.2	nationale	10 * ani de desfasurare	4	55.00
			Membru in echipa	A2.4.2.1	Internationale	4 * ani de desfasurare	0	0.00
				A2.4.2.2	nationale	2 * ani de desfasurare	8	41.00
						Total punctaj A(2)		**1950.15**
3	Recunoasterea si impactul activitatii (A3)	Citari [7] in carti, reviste si volume ale unor manifestari stiintifice		A3.1.1	carti, ISI [8]	8 / nr aut art. citat	411	1380.66
				A3.1.2	BDI [4]	4 / nr aut art. citat	58	71.33
		Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, ISI [9]	Punctaj unic pentru fiecare activitate	A3.2		10	11	110.00
		Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, internationale indexate BDI [4]	Punctaj unic pentru fiecare activitate	A3.3		6	4	24.00
		Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaţionale de prestigiu.		A3.4		15	3	24.00
						Total punctaj A(3)		**1609.99**

Conditii minimale						
Nr.	**Domeniu de activitate (A)**	**Conferentiar**	**CSII**	**Profesor**	**CSI**	**Realizat**
A1	**Activitatea didactica / profesionala (A1)**	50	Fără restricţi	100	Fără restricţi	**124.58**
A2	**Activitatea de cercetare (A2)**	300	350	600	700	**1950.15**
A3	**Recunoasterea impactului activitatii (A3)**	50	50	150	150	**1609.99**
Total (A)		**400**	**400**	**850**	**850**	**3684.73**
Conditii minimale obligatorii pe subcategorii		**Conferentiar**	**CSII**	**Profesor**	**CSI**	**Realizat**
A1.1.1.-A1.1.2	**Carti si capitole in carti de specialitate**	1	1	1	1	**8.00**
A2.1.	**Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings**	6 din care minimum 1 în reviste cotate ISI Q1 sau Q2[10]	6 din care minimum 1 în reviste cotate ISI Q1 sau Q2[10]	15 din care minimum 3 în reviste cotate ISI Q1 sau Q2[10]	15 din care minimum 3 în reviste cotate ISI Q1 sau Q2[10]	**107.00**
A2.4.1	**Granturi/proiecte castigate prin competitie (Director/ responsabil) sau contracte cu agentii economici in valoare de minim 10.000 de USD sau echivalent incasati**	1	2	2	4	**4.00**
A3.1.1	**Numar de citari in carti, reviste si volume ale unor manifestari stiintifice ISI [11]**	10	10	25	25	**411.00**
	Factor de impact ISI cumulat pentru publicaţii [12]	4	4	20	20	**127.23**
	Nr Minim Reviste ISI in zona Q1/Q2	1	1	3	3	**30.00**

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	Cristina Ioana Pop (Muresan), Eva Henrietta Dulf	Robust Feedback Linearization Control for Reference Tracking and Disturbance Rejection in Nonlinear Systems, invited chapter in Recent Advances in Robust Control – Novel Approaches and Design Methods, ISBN: 978-953-307-561-7, pp. 273-290	InTech Europe, Croatia	2011	6.25
2	Cristina Ioana Muresan	Implementation Issues, chapter in Machado, J.A.T., Baleanu, D., Luo, A. (eds) "Discontinuity and Complexity in Nonlinear Physical Systems", Nonlinear Systems and Complexity Volume 6, pp. 113-134, ISBN: 978-3-319-01410-4, ISSN: 2195-9994, DOI:10.1007/978-3-319-01411-1__7	Springer Berlin Heidelberg	2014	25
3	E.H. Dulf, C.I. Muresan, C. Ionescu	Fault Tolerant Control of the 13C Isotope Separation Cascade, chapter in K. Taş, D. Baleanu, J.A. Tenreiro Machado (eds.) "Mathematical Methods in Engineering. Nonlinear Systems and Complexity", vol. 24, pp. 53-65, DOI: https://doi.org/10.1007/978-3-319-90972-1_4	Springer, Cham	2019	8.333333333
4	C.I. Muresan, R. De Keyser, I. R. Birs, S. Folea, O. Prodan	for Vibration Suppression, chapter in K. Taş, D. Baleanu, J.A. Tenreiro Machado (eds.) "*Mathematical Methods in Engineering. Nonlinear Systems and Complexity*", vol. 24, pp. 245-256, DOI: https://doi.org/10.1007/978-3-319-90972-1_15	Springer, Cham	2019	5
5	Ionescu, C.M., Copot, D., Muresan, C.I.	A multi-scale model of nociception pathways and pain mechanisms, chapter in Baleanu, D., Lopes, A.M. (eds.) „Handbook Of Fractional Calculus With Applications. Volume 7: Applications In Engineering, Life And Social Sciences, Part A", pp. 55-68, DOI:10.1515/9783110571905-004	De Gruyter	2019	8.333333333
6	Muresan, C.I., Copot, D.	Chapter 4 - Information From Time-Based Signals, chapter in Ionescu, C., Lung Function Testing in the 21st Century. Methodologies and Tools Bridging Engineering to Clinical Practice, pp. 109-123, 10.1016/B978-0- 12-814612-5.00006-3, ISBN 978-0-12-814612-5, Elsevier	Elsevier	2019	12.5
7	Birs. I., Muresan, C.I.	A non-Newtonian impedance measurement experimental framework: modeling and control inside blood-like environments—fractional-order modeling and control of a targeted drug delivery prototype with impedance measurement capabilities, chapter in Copot, D. "Automated Drug Delivery in Anesthesia", ISSN:978-0-12-815975-0, DOI: 10.1016/B978-0-12-815975-0.00008-4, Elsevier	Elsevier	2020	12.5
8	C. Copot, C.M. Ionescu, C.I. Muresan	Image-Based and Fractional-Order Control for Mechatronic Systems. Theory and Applications with MATLAB®, ISBN 978-3-03-042005-5, 978-3- 03-042006-2, DOI: 10.1007/978-3-030-42006-2, Springer	Springer	2020	33.33333333
				Total	111.25

A1.2.1. Materiale didactice

1	Cristina I. Muresan, Eva H. Dulf, Clement Festila	Ingineria Reglarii Automate 1, Indrumator de laborator, 2012	U.T. Press Cluj-Napoca	2012	13.33333333

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

Nr.	Autori	Titlu articol	Factor Impact	Nr. Aut	Punctaj	
1	Pop, C.-I., Festila, Cl., Dulf, E.-H	Optimal Control of The Carbon Isotopes Cryogenic Separation Process, Chemical and Biochemical Engineering Quarterly, Issue 24, No. 3, ISSN 0352-9568, pp.301-307, 2010	0.483	3	13.16	
2	Pop, C.-I., Dulf, E.-H	Control Strategies of the 13C Cryogenic Separation Column, Control Engineering and Applied Informatics, Vol. 12, No. 2, ISSN 1454-8658, pp.36-43, June 2010	0	2	12.50	
3	Pop, C.-I., Festila, Cl., Dulf, E.-H., Gligan	Tracking and Disturbance Rejection in the 13C Cryogenic Separation Column, Control Engineering and Applied Informatics, vol. 14, no.1, pp.48- 57, 2012	0.202	4	7.77	
4	Dulf, E.H., Pop, C.I., Dulf, F.	Systematic Modeling of the (13C) Isotope Cryogenic Distillation Process, Separation Science and Technology, vol. 47(8), pp. 1234-1240 DOI:10.1080/01496395.2011.644614	1.164	3	19.97	Q1/Q2
5	Dulf, E.-H., Pop, C.-I., Dulf, F.-V.	Fractional Calculus in 13C Separation Column Control, Signal, Image and Video Processing, vol. 6, no. 3, pp.479-485, DOI: 10.1007/s11760-012- 0335-z, 2012	0.409	3	12.42	
6	Pop, C.-I., Ionescu, C., De Keyser, R., Dulf, E.-H.	Robustness evaluation of Fractional Order Control for Varying Time Delay Processes, Signal, Image and Video Processing, vol. 6, no. 3, pp.453-461, DOI: 10.1007/s11760-012-0322-4, 2012	0.409	4	9.32	
7	Pop, C.-I., Ionescu, C. M., De Keyser, R.	Time delay compensation for the secondary processes in a multivariable carbon isotope separation unit, Chemical Engineering Science, vol. 80, pp. 205-218, DOI: 10.1016/j.ces.2012.06.043 , 2012	2.386	3	32.19	Q1/Q2
8	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, 2013	1.823	4	19.92	Q1/Q2
9	Dulf, E.-H., Muresan, C.I., Unguresan, M. L.	Modeling the (15N) Isotope Separation Column, Journal of Mathematical Chemistry, Vol. 52, No.1, pp. 115-131, DOI: 10.1007/s10910-013-0248-2, 2014	1.145	3	19.78	Q1/Q2
10	Muresan, C.I., Dulf, E.H., Both, R.	Comparative analysis of different control strategies for a train of cryogenic 13C separation columns, Chemical Engineering and Technology, vol. 38, no. 4, pp. 619-631, DOI: 10.1002/ceat.201400550, 2015	2.442	3	32.75	Q1/Q2
11	Muresan, C.I., Ionescu, C., Folea, S., De Keyser, R.	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, 2015	3	4	28.75	Q1/Q2
12	Dulf, E.-H., Dulf, F.V., Muresan, C.I.	Fractional Model of the Cryogenic (13C) Isotope Separation Column, Chemical Engineering Communications, Vol. 202, No. 12, pp. 1600-1606, DOI:10.1080/00986445.2014.968709, 2015	1.433	3	22.66	
13	Ionescu, C., Muresan, C.I	Sliding mode control for a class of Sub-systems with fractional order varying trajectory dynamics, Fractional Calculus and Applied Analysis, Vol. 18, No. 6, pp. 1441-1451, DOI: 10.1515/fca-2015-0083, 2015	2.246	2	46.19	Q1/Q2

14	Muresan, C.I., Dutta, H., Dulf, E.H., Pinar, Z., Maxim, A., Ionescu, C.M.	Tuning algorithms for fractional order internal model controllers for time delay processes, International Journal of Control, Vol. 89, No. 3, pp. 579-593, DOI: 10.1080/00207179.2015.1086027, 2016	2.208	6	15.21	Q1/Q2
15	Folea, S., Muresan, C.I., De Keyser, R., Ionescu, C.	Theoretical Analysis and Experimental Validation of a Simplified Fractional Order Controller for a Magnetic Levitation System, IEEE Transactions on Control Systems Technology, vol. 24, no. 2, pp. 756 – 763, DOI: 10.1109/TCST.2015.2446496 , 2016	3.882	4	35.37	Q1/Q2
16	Muresan, C.I., Dulf, E.H., Both, R.	Vector Based Tuning and Experimental Validation of Fractional Order PI/PD Controllers, Journal of Nonlinear Dynamics, DOI: 10.1007/s11071-015-2328-2, Vol. 84, No. 1, pp. 179-188 , 2016	3.464	3	42.97	Q1/Q2
17	De Keyser, R., Muresan, C.I., Ionescu, C.	A Novel Auto-tuning Method for Fractional Order PI/PD Controllers, ISA Transactions, Vol. 62, pp. 268-275, DOI: 10.1016/j.isatra.2016.01.021, 2016	3.394	3	42.27	Q1/Q2
18	Folea, S., Mois, G., Muresan, C.I., Miclea, L., De Keyser, R., Cirstea, M.	A Portable Implementation on Industrial Devices of a Predictive Controller using Graphical Programming, IEEE Transactions On Industrial Informatics, Vol. 12, No. 2, pp. 1-9, ISSN: 1551-3203, DOI: 10.1109/TII.2016.2532118, 2016	6.764	6	37.99	Q1/Q2
19	Harja, G., Nascu, I., Muresan, C.I., Nascu, I.	Improvements in dissolved oxygen control of an activated sludge wastewater treatment process, Circuits, Systems & Signal Processing, Vol. 35, No. 6, pp. 2259-2281, DOI: 10.1007/s00034-016-0282-y, 2016	1.694	4	18.96	
20	Muresan, C.I., Dulf, E.H., Prodan, O.	A Fractional Order Controller For Seismic Mitigation Of Structures Equipped With Viscoelastic Mass Dampers, Journal of Vibration and Control, DOI:10.1177/1077546314557553, Vol. 22, no. 8, pp. 1980-1992, 2016	2.101	3	29.34	Q1/Q2
21	Muresan, C.I., Dulf, E.H., Copot, C., De Keyser, R., Ionescu, C.M.	Design and analysis of a multivariable fractional order controller for a non-minimum phase system, DOI: 10.1177/1077546315575433, Journal of Vibration and Control, Vol. 22 no. 9, pp. 2187-2195 , 2016	2.101	5	17.61	Q1/Q2
22	Dulf, E.H., Timis, D., Muresan, C.I.	Robust Fractional Order Controllers for Distributed Systems, Acta Polytechnica Hungarica, vol. 14, no. 1, pp. 163-176, DOI: 10.12700/APH.14.1.2017.1.11, 2017	0.745	3	15.78	
23	Folea, S., De Keyser, R., Birs, I.R., Muresan, C.I., Ionescu, C.I.	Discrete-Time Implementation and Experimental Validation of a Fractional Order PD Controller for Vibration Suppression in Airplane Wings, Acta Polytechnica Hungarica, vol. 14, no. 1, pp. 191-206, DOI: 10.12700/APH.14.1.2017.1.13 , 2017	0.745	5	9.47	
24	De Keyser, R., Muresan, C.I., Ionescu, C.M.	An efficient algorithm for low-order direct discrete-time implementation of fractional order transfer functions, ISA Transactions, vol. 74, pp. 229-238, DOI: 10.1016/j.isatra.2018.01.026, 2018	4.343	3	51.76	Q1/Q2
25	Muresan, C.I., Folea, S.C., Birs, I.R., Ionescu, C.M.	A Novel Fractional Order Model and Controller for Vibration Suppression in Flexible Smart Beam, Nonlinear Dynamics, vol. 93, no. 2, pp. 525-541, DOI: 10.1007/s11071-018-4207-0, 2018	4.604	4	40.78	Q1/Q2
26	Muresan, C.I., Copot, C., Birs, I.R., De Keyser, R., Vanlanduit, S., Ionescu, C.	Experimental validation of a novel auto-tuning method for a fractional order PI controller on an UR10 robot, Algorithms, vol. 11(7), pp. 95, DOI: 10.3390/a11070095, 2018	0	6	4.17	
27	Copot, C., Muresan, C.I., Ionescu, C., Vanlanduit, S., De Keyser, R.	Calibration of UR10 robot controller through simple auto-tuning approach, Robotics, vol. 7(3), pp. 35, DOI: 10.3390/robotics7030035, 2018	0	5	5.00	
28	Markowski, K., Birs, I.R., Muresan, C.I., Prodan, O.	Different fractional order models for an experimental smart beam system, Bulletin Of The Polish Academy Of Sciences- Technical Sciences, Vol. 66, no. 4, pp. 485-493, DOI: 10.24425/124265, 2018	1.361	4	16.46	
29	Muresan, C.I., Ionescu, C., Dulf, E.H., Rusu-Both, R., Folea, S.	Advantage of low-cost predictive control: study case on a train of distillation columns, Journal of Chemical Engineering and Technology, vol. 41, no. 10, pp. 1936-1948, DOI: 10.1002/ceat.201700529 , 2018	2.418	5	19.51	
30	Muresan, C.I., Birs, I.R., Folea, S., Ionescu, C.	Fractional order based velocity control system for a nanorobot in non-Newtonian fluids, Bulletin Of The Polish Academy Of Sciences- Technical Sciences, Vol. 66, No. 6, pp. 991-997, DOI: 10.24425/bpas.2018.125946, 2018	1.361	4	16.46	
31	Birs, I., Muresan, C.I., Nascu, I., Ionescu, C.	A Survey of Recent Advances in Fractional Order Control for Time Delay Systems, *IEEE Access* , vol. 7, no. 1, pp. 30951-30965, DOI: 10.1109/ACCESS.2019.2902567, 2019	4.098	4	36.99	Q1/Q2
32	Muresan, C.I., Birs, I.R., Ionescu, C., De Keyser, R.	Tuning of fractional order proportional integral/proportional derivative controllers based on existence conditions, Proc IMechE Part I: J Systems and Control Engineering, vol. 223, no. 4, pp. 384-391, DOI: 10.1177/0959651818790809, 2019	1.166	4	15.00	
33	De Keyser, R., Muresan, C.I., Ionescu, C.	Universal Direct Tuner for Loop Control in Industry, IEEE Access, vol. 7, pp. no. 1, pp. 81308-81320, DOI: 10.1109/ACCESS.2019.2921870, 2019	4.098	3	49.31	Q1/Q2
34	Birs, I., Copot, D., Muresan, C.I., Nascu, I., Ionescu, C.	Identification For Control Of Suspended Objects In Non-Newtonian Fluids, Fractional Calculus and Applied Analysis, vol. 22, no.5, pp. 1378–1394 , DOI: 10.1515/fca-2019-0072, 2019	3.514	5	26.08	Q1/Q2
35	Juchem, J., Muresan, C.I., De Keyser, R., Ionescu, C.M.	Robust fractional-order auto-tuning for highly-coupled MIMO systems, Heliyon, Vol. 5, No. 7, paper e02154, DOI: 10.1016/j.heliyon.2019.e02154, 2019	0	4	6.25	
36	I. Birs, S. Folea, O. Prodan, E. Dulf, C. Muresan	An experimental tuning approach of fractional order controllers in the frequency domain, Applied Sciences, vol. 10(9), pp. 2379 , 2020	2.474	5	19.84	Q1/Q2
37	Eva-H. Dulf, Dan C. Vodnar, Alex Danku, Cristina-I. Muresan, Ovidiu Crisan	Fractional-Order Models for Biochemical Processes, Fractal and Fractional, 4(2), 12, doi: 10.3390/fractalfract4020012, 2020	0	5	5.00	
38	C. Ionescu, I. Birs, D. Copot, C. Muresan, R. Caponetto	Mathematical modelling with experimental validation of viscoelastic properties in non-Newtonian fluids, Philosophical Transactions of The Royals Society A, A 20190284, doi:10.1098/rsta.2019.0284, 2020	3.275	5	24.65	Q1/Q2
39	C.M. Ionescu, E.H. Dulf, M. Ghita, C.I. Muresan	Robust Controller Design: Recent Emerging Concepts for Control of Mechatronic Systems, Journal of the Franklin Institute, DOI: 10.1016/j.jfranklin.2020.05.046, Vol. 357, No. 12, pp. 7818-7844 , 2020	4.036	4	36.52	Q1/Q2
40	I. Birs, I. Nascu, C. Ionescu, C. Muresan	Event-based fractional order PID control, Journal of Advanced Research, Volume 25, pp.191-203, DOI: 10.1016/j.jare.2020.06.024 , 2020	6.992	4	58.69	Q1/Q2
41	Muresan, C.I.; Ionescu, C.M.	Generalization of the FOPDT Model for Identification and Control Purposes, Processes, 8, 682, doi: 10.3390/pr8060682 , 2020	2.753	2	53.80	Q1/Q2

42	Muresan, Cristina I.; Birs, Isabela R.; Dulf, Eva H.	Event- Based Implementation of Fractional Order IMC Controllers for Simple FOPDT Processes, Mathematics, 8(8), 1378, doi: 10.3390/math8081378, 2020	1.747	3	25.80	Q1/Q2
43	EH Dulf, M Saila, CI Muresan, LC Miclea	An Efficient Design and Implementation of a Quadrotor Unmanned Aerial Vehicle Using Quaternion-Based Estimator, Mathematics, vol 8, No. DOI: 10.3390/math8101829, 2020	1.747	4	19.35	Q1/Q2
44	M. Ghita, M. Neckebroek, C. Muresan, D. Copot	Closed- Loop Control of Anesthesia: Survey on Actual Trends, Challenges and Perspectives," in IEEE Access, vol. 8, pp. 206264- 206279, 2020, doi: 10.1109/ACCESS.2020.303772, 2020	3.745	4	34.34	Q1/Q2
45	R. A. C. Diaz, M. Ghita, D. Copot, I. R. Birs, C. Muresan and C. Ionescu	Context Aware Control Systems: An Engineering Applications Perspective, IEEE Access, vol. 8, pp. 215550-215569, doi: 10.1109/ACCESS.2020.3041357, 2020	3.745	6	22.89	Q1/Q2
46	Ghita, M.; Neckebroek, M.; Juchem, J.; Copot, D.; Muresan, C.I.; Ionescu, C.M.	Bioimpedance Sensor and Methodology for Acute Pain Monitoring, Sensors, 20, 6765, Doi:10.3390/s20236765, 2020	3.275	6	20.54	Q1/Q2
47	C.I. Muresan, I. Birs, R. De Keyser	An Alternative Design Approach for Fractional Order Internal Model Controllers for Time Delay Systems, Journal of Advanced Research, DOI: 10.1016/j.jare.2021.01.004, 2021	6.992	3	78.25	Q1/Q2
48	Pop, C.-I., Ionescu, C.M, De Keyser, R., Dulf, E.-H., Valean, H., Neaga, A., Darab, C.	An Alternative EPSAC Based Control Strategy for Multivariable Time Delay Processes, International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2012 (THETA 18), IEEE Catalog Number: CFP12AQT-CDR, ISBN: 978-1-4673-0703-1, pp. 150-155, 24-27 mai 2012, Cluj-Napoca	0.25	7	4.64	
49	Festila, Cl., Pop, C.-I., Dulf, E.-H., Baldea, A., Gligan, M.	Flooding Process Analysis by 13C Cryogenic Separation Column, International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2008 (THETA 16), ISBN: 978-1-4244-2577-8, IEEE Catalog Number: CFP08AQCDR, Library of Congress: 2008904446, pp.96-100, 22-25 mai 2008, Cluj-Napoca	0.25	5	6.50	
50	Dulf, E.-H., Pop, C.-I., Feştilă, Cl., Dulf, F.	Robust Feedback Linearization Applied to a Separation Column for 13C, American Institute of Physics Proceedings no. 1107 33 (2009), DOI: 10.1063/1.3106498	0.25	3	10.83	
51	Pop, C.-I., Dulf, E.-H., Festila, Cl.	Estimator based Flooding Predictor for (13C) Cryogenic Separation Column, International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2008 (THETA 16), ISBN: 978-1-4244-2577-8, IEEE Catalog Number: CFP08AQCDR, Library of Congress: 2008904446, pp.207-211, 22-25 mai 2008, Cluj-Napoca	0.25	3	10.83	
52	Festila, Cl., Pop, C.-I., Dulf, E.-H.	Synchronous Rectification Applied in a Transfer Function Analyzer, International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2010 (THETA 17), ISBN: 978-1-4244-6724-2, pp.121-125, 28-30 mai 2010, Cluj-Napoca	0.25	3	10.83	
53	Pop, C.-I., Dulf, E.-H., Festila, Cl., Muresan, B.	Feedback Linearization Control Design for the 13C Cryogenic Separation Column, International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2010 (THETA 17), ISBN: 978-1-4244-6724-2, IEEE Catalog Number: CFP10AQT-PRT, vol. I, pp. 157-163, 28-30 mai 2010, Cluj-Napoca	0.25	4	8.13	
54	Muresan, C.I., Both, R., Dulf, E.H., Neaga, A., Ionescu, C	HIL Real-Time Simulation of a Digital Fractional Order PI Controller for Time Delay Processes, IEEE Africon, ISBN: 978-1-4673-5940-5, ISSN: 2153-0025, DOI: 10.1109/AFRCON.2013.6757603, pp. 1-5, 9-12 September, Mauritius	0.25	5	6.50	
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58	Muresan, C.I., Mois, G., Folea, S., Ionescu, C.	Alternative Implementations of a Fractional Order Control Algorithm on FPGAs, International Conference on Reconfigurable Computing and FPGAs (ReConFig), ISBN: 978-1-4799-2078-5 , DOI: 10.1109/ReConFig.2013.6732269, pp. 1-6, 9-11 December, Cancun, Mexic ,2013	0.25	4	8.13	
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68	Dulf, E.H., Muresan, C.I., Both, R., Fustos, C.	Auto-tuning Fractional Order Velocity Control of a DC Motor, 2015 Intl Aegean Conference on Electrical Machines & Power Electronics (ACEMP), 2015 Intl Conference on Optimization of Electrical & Electronic Equipment (OPTIM) & 2015 Intl Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION), pp. 159 – 162, DOI: 10.1109/OPTIM.2015.7427022, Side, Turkey, 2-4 September 2015	0.25	4	8.13
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71	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, pp. 129-133, DOI: 10.1109/CoDIT.2016.7593548, Malta, April 6-8, 2016	0.25	4	8.13
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77	I. Birs, S. Folea, F. Ionescu, O. Prodan, C.I. Muresan	Preliminary results and simulation of an active pendulum system for a three floor building, X International Conference on Structural Dynamics, EURODYN 2017, 10-13 September 2017, Rome, Italy, Procedia Engineering, Vol.199, pp. 1647–1652, DOI: 10.1016/j.proeng.2017.09.088	0.25	5	6.50
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82	C. I. Muresan, I. Nascu, E. H. Dulf	Design and Dynamics Analysis of a Fractional Order IMC Controller for a Waste Water Treatment Plant, 12th IEEE Conference on Industrial Electronics and Applications (ICIEA), pp. 693-698, DOI: 10.1109/ICIEA.2017.8282930, 18-20 June 2017, Siem Reap, Cambodia	0.25	3	10.83
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92	Copot, C., Muresan, C.I., Mac Thi, T., Ionescu, C.M.	An application to robot manipulator joint control by using constrained PID based PSO, Proceedings of the IEEE 12th International Symposium on Applied Computational Intelligence and informatics – SACI, pp. 279-284, DOI: 10.1109/SACI.2018.8440927, 17-19 May 2018, Timisoara, Romania	0.25	4	8.13
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97	Birs, I., Copot, D., Muresan, C.I., De Keyser, R., Ionescu, C.M	Robust Fractional Order PI Control for Cardiac Output Stabilisation, 12th IFAC Symposium on Dynamics and Control of Process Systems, including Biosystems, Florianópolis - SC, Brazil, April 23-26, 2019, IFAC-PapersOnLine, vol. 52, no. 1, pp. 994-999, DOI: 10.1016/j.ifacol.2019.06.192, 2019	0.25	5	6.50
98	Birs, I.R., Ghita, Mi., Ghita, Ma., Copot, D., Muresan, C.I., Ionescu, C	An Interdisciplinary, Low-Cost Methodological Framework for Analysing Dynamical Material Properties For Control-Related Applications, The 12th IFAC Symposium on Advances in Control Education, Philadelphia, USA, July 7-9 2019, IFAC-PapersOnLine, Vol. 52, No. 9, pp. 159- 164, DOI: 10.1016/j.ifacol.2019.08.186	0.25	6	5.42
99	Muresan, C.I., Copot, C., Ionescu, C., De Keyser, R.	Robust Fractional Order Control of LPV Dynamic Mechatronic Systems, The 15th IEEE International Conference on Control and Automation, pp. 154-159, doi: 10.1109/ICCA.2019.8899734, Edinburgh, Scotland, July 16–19 2019	0.25	4	8.13
100	Birs I., Copot D., Pilato C., Ghita M., Caponetto R., Muresan C.I., Ionescu, C.	Experiment design and estimation methodology of varying properties for non-Newtonian fluids, 2019 IEEE International Conference on Systems, Man and Cybernetics (SMC), Bari, Italy, 2019, pp. 324-329, doi: 10.1109/SMC.2019.8914513	0.25	7	4.64
101	Birs, I., Copot, D., Ghita, M., Muresan, C.I., Ionescu, C.M.	Fractional-order modeling of impedance measurements in a blood-resembling experimental setup, 2019 IEEE International Conference on Systems, Man and Cybernetics (SMC), Bari, Italy, 2019, pp. 898-903, doi: 10.1109/SMC.2019.8914573	0.25	5	6.50
102	De Keyser, R., Muresan, C.I.	Experimental Validation of an Efficient Disturbance Rejection Method for Dead-Time Processes using Internal Model Control, 2019 24th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Zaragoza, Spain, 2019, pp. 475-480, doi: 10.1109/ETFA.2019.8869004	0.25	2	16.25

103	C. I. Muresan, I. R. Birs, C. Darab, O. Prodan and R. De Keyser	"Alternative Approximation Method for Time Delays in an IMC Scheme," 2019 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2019 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Istanbul, Turkey, 2019, pp. 532-539, doi: 10.1109/ACEMP-OPTIM44294.2019.9007220.	0.25	5	6.50
104	Birs, I, Muresan, C.I., Nascu, I., Ionescu, C.	Design and Practical Implementation of a Fractional Order Proportional Integral Controller (FOPI) for a Poorly Damped Fractional Order Process with Time Delay, The 7th International Conference on Control, Mechatronics and Automation, th International Conference on Control, Mechatronics and Automation (ICCMA), Delft, Netherlands, 2019, pp. 56-61, doi: 10.1109/ICCMA46720.2019.8988655, Delft, Netherlands, November 6-8, 2019	0.25	4	8.13
105	I. Birs, C. I. Muresan, R. Both and I. Nascu	A real life implementation of fractional order event based PI control, 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, 2020, pp. 1-6, doi: 10.1109/AQTR49680.2020.9129933	0.25	4	8.13
106	I. Birs, I. Nascu and C. I. Muresan	Fractional Order Internal Model Control Strategies for a Biomerged Nanorobot, 2020 International SAUPEC/RobMech/PRASA Conference, Cape Town, South Africa, 29-31 January 2020, ISBN:978-1-7281- 4163-3, Electronic ISBN: 978-1-7281-4162-6, DOI: 10.1109/SAUPEC/RobMech/PRASA48453.2020.9040977, pp. 1-6, 2020	0.25	3	10.83
107	Birs, I., Muresan, C., Ionescu, C.	An event based implementation of a fractional order controller on a scalable nanorobot, 2020 European Control Conference (ECC), pp. 1436- 1441, doi: 10.23919/ECC51009.2020.9143776, 12-15 May 2020, St. Petersburg, Russia	0.25	3	10.83
108	De Keyser, R., Muresan, C. I.	Internal Model Control: Efficient Disturbance Rejection for Dead-Time Process Models with Validation on an Active Suspension System, The 2020 European Control Conference (ECC), pp. 106-111, doi: 10.23919/ECC51009.2020.9143977, 12-15 May 2020, St. Petersburg, Russia	0.25	2	16.25
		Factor impact cumulat	127.234		
		Total punctaj A2.1.			**1764.30**

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	Pop, C.-I., De Keyser, R., Iononescu, C. M.	Systems with Multiple Time Delays, The 19th Mediterranean Conference on Control and Automation, ISBN: 978-1-4577-0124-5, pp. 382-387, DOI: 10.1109/MED.2011.5983051, 20-23 iunie 2011, Corfu	IEEE	3	6.67
2	Dulf, E. –H., Festila, Cl., Dulf, F.-V., Pop, C.-I., Both, R.	Fractional Order Controller Design for 13C Separation Column, The 19th Mediterranean Conference on Control and Automation, ISBN: 978-1-4577-0124-5, pp. 582-587, DOI: 10.1109/MED.2011.5983150, 20-23 iunie 2011, Corfu	IEEE	5	4.00
3	Muresan, B., Pop, C.-I., Nascu, I., Crisan, R. D	Nonlinear Neuro-predictive Control of a Miniature Coaxial Helicopter, The 19th Mediterranean Conference on Control and Automation, ISBN: 978-1-4577-0124-5, pp. 1271-1276, DOI: 10.1109/MED.2011.5982978, 20-23 iunie 2011, Corfu	IEEE	4	5.00
4	Pop, C.-I., Dulf, E.-H., De Keyser, R., Ionescu, C. M., Muresan, B., Festila, Cl.	Isotope Separation Column, 6th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI 2011), ISBN: 978-1-4244-9108-7, pp. 29 – 34, DOI: 10.1109/SACI.2011.5872968, 19-21 mai 2011, Timisoara	IEEE	6	3.33
5	A.O. Neaga, Cl. Festila, E.H. Dulf, T. Szelitzky, R. Both, C.-I. Pop, M. Gligan	Electrical Power Monitoring and Control in 13C Isotope Separation Column Boiler, 7th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI), ISBN 978-1-4673-1013-0, pp.13-18, DOI: 10.1109/SACI.2012.6249968, 24-26 mai 2012, Timisoara	IEEE	7	2.86
6	Muresan, C.-I., Both, R., Ionescu, C.M., Dulf, E.-H	Fractional Order Control for the Temperature Loop in a Chemical Reactor, 16th International Conference on System Theory, Control and Computing, IEEE Catalog Number CFP1236P-CDR, ISBN 978-606-834-848-3, pp. 1-5, 12-14 octombrie 2012, Sinaia	IEEE	4	5.00
7	Muresan, C.I., Dulf, E.H., Both, R.	Fractional and Integer Order Control. Application to DC motor speed control, 17th International Conference on System Theory, Control and Computing Joint Conference SINTES 17, SACCS 13, SIMSIS 17, ISBN: 978-1-4799-2227-7, DOI: 10.1109/ICSTCC.2013.6688986, pp. 362 – 367, 11 - 13 October 2013, Sinaia, Romania	IEEE	3	6.67
8	Muresan, C.I., Dulf, E.H., Ionescu, C.	Robustness Evaluation of a Multivariable Fractional Order PI Controller for Processes with Multiple Time Delays, Journal of Control and Intelligent Systems, ActaPress, Vol. 42, No. 2, pp. 112-118, DOI: 10.2316/Journal.201.2014.2.201-2507, March 2014	SCOPUS	3	6.67
9	Muresan, C.I., Dulf, E.H., Both, R., Ionescu, C.M., Nascu, I.	Improving performance for a 13C isotope separation plant using multivariable fractional order controllers, International Conference on Fractional Differentiation and its Applications, pp. 1-6, DOI: 10.1109/ICFDA.2014.6967385, 23-25 June 2014, Catania, Italy	IEEE	5	4.00
10	Dulf, E.H., Muresan, C.I., Both, R., Dulf, F.V.	Fractional order controller design for a large class of process models, International Conference on Fractional Differentiation and its Applications, pp. 1-6, DOI: 10.1109/ICFDA.2014.6967448, 23-25 June 2014, Catania, Italy	IEEE	4	5.00
11	Folea, S., Marton, B., Muresan, C.I.	order controller and the IMC, The 18th International Conference System Theory, Control and Computing (ICSTCC), pp. 59 – 63, DOI: 10.1109/ICSTCC.2014.6982391, October 17-19, Sinaia, Romania , 2014	IEEE	3	6.67
12	Muresan, C.I., Dulf, E.H., Both, R.	Time Delay Processes, International Journal of Mechanical Engineering and Robotics Research, Vol. 4, No. 3, 218-221, DOI: 10.18178/ijmerr.4.3.218-221, paper selected at the International Conference on Mechanical Manufacturing and Control, 21-23	SCOPUS	3	6.67
13	Birs, I.R., Muresan, C.I., Folea, S., Prodan, O.	An experimental nanomedical platform for controller validation on targeted drug delivery, Proceedings of the Australian and New Zealand Control Conference (ANZCC), pp. 161-165, DOI: 10.1109/ANZCC.2017.8298504, 17-20 December 2017, Gold Coast, Australia	IEEE	4	5.00
14	Birs, I.R., Muresan, C.I., Folea, S., Prodan, O.	for Vibration Suppression, Applied Mathematics and Nonlinear Sciences, Vol. 1, No. 1, pp. 273-282, DOI:10.21042/AMNS.2016.1.00022	SCOPUS	4	5.00
15	Muresan, C.I., Tenreiro Machado, J.A., Ortigueira, M.D	Editorial special issue: "Dynamics and Control of Fractional Order Systems", International Journal of Dynamics and Control, vol. 5, no. 1, pp. 1-3, DOI: 10.1007/s40435-016-0251-0	Springerlink	3	6.67

16	Muresan, C.I., Ostalczyk, P., Ortigueira, M.D.	Modeling and Design of Control Systems", Journal of Applied Nonlinear Dynamics, vol. 6(2), pp. 131–134, DOI: 10.5890/JAND.2017.06.001	SCOPUS	3	6.67
17	Birs, I.R Muresan, C.I., Folea, S., Prodan, O., Ionescu, C.	Fractional order modeling and control of a carrier prototype for targeted drug delivery, Proceedings of the 2018 2nd International Conference on Computational Biology and Bioinformatics, pp.1-5, DOI: 10.1145/3290818.3290833, paper selected at The 2nd International Conference on Industrial Design Engineering (ICIDE 2018), 21-23 September 2018, Phuket, Thailand, ICCBB2018-ACM	ACM	5	4.00
		Total punctaj A2.2.			**89.86**

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

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	National	Novel Fractional Order Control Strategies for Vibration Suppression in Aeroplane Wings, TE PN-II-RU-TE-2014-4-0598, TE 86/1.10.2015, 1.10.2015-30.09.2017, 534.980 lei	1.10.2015-30.09.2017	2	20
2	National	Prototip scalabil de nanorobot in fluide non-Newtoniene folosind model si control de ordin fractionar, PN-III-P2-2.1-PED- 2016-0101, 92PED/2018, 590.000 lei	3.01.2017- 3.07.2018	1.5	15
2	National	Robust fractional order event-based control for optimised resource allocation in complex cyber-physical closed loop systems, PN-III-P1-1.1-TE-2016-1396, TE65/2018, 445.050 lei	2.05.2018-30.04.2020	2	20
3	National	Novel Fractional Order Autotuners for Poorly Damped Systems to Ensure Improved Safety and Comfort, PN-III-P1-1.1-TE-2019-0745, TE 143/2020, 431.890 lei	1.11.2020-31.10.2022	2	20
		Total punctaj A2.4.1			**75**

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

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	National	REGLAREA NELINIARA ROBUSTA A COLOANELOR DE SEPARARE CRIOGENICA A IZOTOPULUI 13C, 71023/14.09.2007	2007-2010	3	6
2	National	MODELAREA STRUCTURALA COMPLEXA A COLOANELOR DE SEPARARE IZOTOPICA PENTRU STRATEGII AVANSATE DE CONTROL, ID_228/2008,	2009-2011	3	6
3	National	Modern Cascade for 13C Cryogenic Separation (SEPCAS-13C), PCCA 155/2012	2012-2016	4	8
4	National	Robust fractional order control strategies for multivariable time delay processes, TE PNII-RU-TE-2012-3-0307, 59/2013	2013-2016	3	6
5	Bilateral	Distributed Control Strategies with Application to Robust Fractional Order Controllers for Distillation, Contract cooperare bilaterala Romania Cipru nr. 763 RO-CY	2014-2015	2	4
6	National	Strategii de control robust, tolerant la defecte, de ordin fractionar cu aplicatii pentru cascada de coloane de separare izotopica, TE PN-II-RU-TE-2014-4-1465, TE 38/1.10.2015	1.10.2015-30.09.2017	2	4
7	National	Simulator sedare pacient pentru dozarea optima si personalizata a medicamentelor in anestezia generala, PN-III-P2-2.1-PED-2019-0322, 552 PED/2020	29.10.2020-28.04.2022	1.5	3
8	National	Abordari nano-vaccinale destinate cancerului de colon, PN-III-P2-2.1-PED-2019- 0844, 323PED/2020	3.08.2020-2.08.2022	2	4
		Total punctaj A2.4.1			**41**

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	Pop (Muresan), C.-I., Ionescu, C., De Keyser, R., Dulf, E.-H. (2012), Robustness evaluation of Fractional Order Control for Varying Time Delay Processes, Signal, Image and Video Processing, vol. 6, no. 3, pp.453-461, DOI: 10.1007/s11760-012-0322-4	Chen, L., Zhao, T., Li, W. et al. Bifurcation control of bounded noise excited Duffing oscillator by a weakly fractional-order PID feedback controller,Nonlinear Dyn (2016) 83: 529. https://doi.org/10.1007/s11071-015-2345-1	4	4.00	Q1/Q2
2		Jikun Ye, Humin Lei, Jiong Li, "Novel Fractional Order Calculus Extended PN for Maneuvering Targets", International Journal of Aerospace Engineering, vol. 2017, Article ID 5931967, 9 pages, 2017. https://doi.org/10.1155/2017/5931967	4	2.00	
3		D. A. John and K. Biswas, "Analysis of disturbance rejection by PIλ controller using solid state fractional capacitor," 2018 IEEE International Symposium on Circuits and Systems (ISCAS), Florence, 2018, pp. 1-5, doi: 10.1109/ISCAS.2018.8351611.	4	2.00	
4		Morteza Daneshmand, Alvo Aabloo, Cagri Ozcinar, Gholamreza Anbarjafari, Real-time, automatic shape-changing robot adjustment and gender classification, Signal, Image and Video Processing, pp 1-8, 2015	4	2.00	
5		M. Beschi, F. Padula & A. Visioli, The generalised isodamping approach for robust fractional PID controllers design, International Journal of Control, DOI: 10.1080/00207179.2015.1099076, 2015	4	4.00	Q1/Q2
6		József Klespitz, Imre Rudas, Levente Kovács, LMI-based feedback regulator design via TP transformation for fluid volume control in blood purification therapies, IEEE International Conference on Systems, Man, and Cybernetics, pp.2615-2619, 2015	4	2.00	
7		Saidi, B.; Amairi, M.; Najar, S.; et al., " Bode shaping-based design methods of a fractional order PID controller for uncertain systems", NONLINEAR DYNAMICS Volume: 80 Issue: 4 Special Issue: SI Pages: 1817-1838 Published: JUN 2015	4	4.00	Q1/Q2
8		R. Azarmi, M. Tavakoli-Kakhki, R. Vilanova, A. Fatehi and A. K. Sedigh, "Robustness Improvement Using the Filtered Smith Predictor Based Fractional Integral-Fractional Derivative Controllers: Application to a Pressure Plant," 2018 7th International Conference on Systems and Control (ICSC), Valencia, Spain, 2018, pp. 306-312, doi: 10.1109/ICoSC.2018.8587804.	4	2.00	
9		Jiangbo Zhao, Weican Jing, Junzheng Wang,An indirect optimization scheme for tuning a fractional order PI controller using extremum seeking,Mechatronics,Volume 56,2018,Pages 146-156, ISSN 0957-4158,https://doi.org/10.1016/j.mechatronics.2018.11.003.	4	4.00	Q1/Q2

10		Zafer Bingul, Oguzhan Karahan, Comparison of PID and FOPID controllers tuned by PSO and ABC algorithms for unstable and integrating systems with time delay, Optimal Control Applications and Methods, Volume39, Issue4, July/August 2018 Pages 1431-1450	4	4.00	Q1/Q2
11		Ataşlar-Ayyıldız, B., & Karahan, O. (2020). Design of a MAGLEV System with PID Based Fuzzy Control Using CS Algorithm, Cybernetics and Information Technologies, 20(5), 5-19. doi: https://doi.org/10.2478/cait-2020-0037	4	2.00	
12		N. Sayyaf and M. S. Tavazoei, "Frequency Data-Based Procedure to Adjust Gain and Phase Margins and Guarantee the Uniqueness of Crossover Frequencies," in IEEE Transactions on Industrial Electronics, vol. 67, no. 3, pp. 2176-2185, March 2020, doi: 10.1109/TIE.2019.2905814.	4	4.00	Q1/Q2
13		Baltazar Aguirre-Hernández, Raúl Villafuerte-Segura, Alberto Luviano-Juárez, Carlos Arturo Loredo-Villalobos, Edgar Cristian Díaz-González, "A Panoramic Sketch about the Robust Stability of Time-Delay Systems and Its Applications", Complexity, vol. 2020, Article ID 9410315, 26 pages, 2020. https://doi.org/10.1155/2020/9410315	4	4.00	Q1/Q2
14		Chen, L., Liang, X., Zhu, W. et al. Stochastic averaging technique for SDOF strongly nonlinear systems with delayed feedback fractional-order PD controller, Sci. China Technol. Sci. (2019) 62: 287. https://doi.org/10.1007/s11431-018-9326-2	4	4.00	Q1/Q2
15	Eva-H. Dulf, Dan C. Vodnar, Alex Danku, Cristina-I. Muresan, Ovidiu Crisan, Fractional-Order Models for Biochemical Processes, Fractal and Fractional, 4(2), 12, doi: 10.3390/fractalfract4020012, 2020	Stamova, Ivanka, and Gani Stamov. "Impulsive control strategy for the Mittag-Leffler synchronization of fractional-order neural networks with mixed bounded and unbounded delays [J]." AIMS Mathematics 6.3 (2021): 2287-2303.	5	3.20	Q1/Q2
16		Lihong Meng, Xu Yang, Umair Zulfiqar, Xin Du. Minimal realization and approximation of commensurate linear fractional-order systems via Loewner matrix method[J]. Mathematical Biosciences and Engineering, 2021, 18(2): 1063-1076. doi: 10.3934/mbe.2021058	5	1.60	
17	Festila, Cl., Pop, C.-I., Dulf, E.-H., Baldea, A., Gligan, M. , Flooding Process Analysis by 13C Cryogenic Separation Column, International IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics AQTR 2008 (THETA 16), ISBN: 978-1-4244-2577-8, IEEE Catalog Number: CFP08AQCDR, Library of Congress: 2008904446, pp.96-	M. R. C. Truşcă, Ş. Albert, M. L. Soran, C. Varodi, F. Farcas and M. L. Unguracan, "Application for some parameters monitoring in installation for isotopes separation," 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, Romania, 2014, pp. 1-3, doi: 10.1109/AQTR.2014.6857931.	5	1.60	
18	E. H. Dulf, C.I. Pop, C. Feştilă, F Dulf, "Robust Feedback Linearization Applied to a Separation Column for 13C", American Institute of Physics Proceedings, vol. 33, no. 1107, 2009.	C. Darab et al., "Robust control of MPPT of a PV cell," 2017 International Conference on Electromechanical and Power Systems (SIELMEN), Iasi, 2017, pp. 042-046. doi: 10.1109/SIELMEN.2017.8123289	4	2.00	
19		Darab, R. Hodrea, R. Crisan and I. Naşcu, "Modeling and internal model control strategy of pH neutralization process," 2012 20th Telecommunications Forum (TELFOR), Belgrade, 2012, pp. 1579-1582. doi: 10.1109/TELFOR.2012.6419524	4	2.00	
20		C. Szász and A. Cioloca, "Two-layer coarse-fine-grid network model for bio-inspired computing systems development," 2013 17th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, 2013, pp. 515-520. doi: 10.1109/ICSTCC.2013.6689010	4	2.00	
21	Muresan, C.I., Dulf, E.H. (2015), Fractional Order IMC based Controller for Time Delay Systems, 12th International Conference of Numerical Analysis and Applied Mathematics, AIP Conf. Proc. 1648, http://dx.doi.org/10.1063/1.4913154 Rhodes, Greece, 22-28 September 2014	Kasireddy, Idamakanti, Abdul Wahid Nasir, and Arun Kumar Singh. "Application of FOPID-FOF Controller Based on IMC Theory for Automatic Generation Control of Power System." IETE Journal of Research (2019): 1-16.	2	4.00	
22		Sholeh Yaghoobi; Behrouz Parsa Moghaddam; Karim Ivaz, A numerical approach for variable-order fractional unified chaotic systems with time-delay, Computational Methods for Differential Equations, Vol. 6, No. 4, 2018, pp. 396-410	2	4.00	
23	Muresan, C.I., Dulf, E.H., Both, R. (2015), A Novel Tuning Algorithm for Fractional Order IMC Controllers for Time Delay Processes, International Journal of Mechanical Engineering and Robotics Research, Vol. 4, No. 3, 218-221, DOI: 10.18178/ijmerr.4.3.218-221, paper selected at the International Conference on Mechanical Manufacturing and Control, 21-23 November, Singapore	Kasireddy, Idamakanti, Abdul Wahid Nasir, and Arun Kumar Singh. "Application of FOPID-FOF Controller Based on IMC Theory for Automatic Generation Control of Power System." IETE Journal of Research (2019): 1-16.	3	2.67	
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26		Almeida, Alexandre Marques de, Marcelo Kaminski Lenzi, and Ervin Kaminski Lenzi. "A Survey of Fractional Order Calculus Applications of Multiple-Input, Multiple-Output (MIMO) Process Control." Fractal and Fractional 4.2 (2020): 22	3	2.67	
27		Aguila-Camacho, Norelys, Manuel A. Duarte-Mermoud, and Marcos E. Orchard. "Fractional order controllers for throughput and product quality control in a grinding mill circuit." European Journal of Control 51 (2020): 122-134.	3	2.67	
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30		Chekari, Tassadit, Rachid Mansouri, and Maamar Bettayeb. "Improved Internal Model Control-Proportional-Integral-Derivative Fractional-Order Multiloop Controller Design for Non Integer Order Multivariable Systems." Journal of Dynamic Systems, Measurement, and Control 141.1 (2019).	3	2.67	
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35		Markowski, K. (2018). Minimal positive realizations of linear continuous-time fractional descriptor systems: Two cases of an input-output digraph structure, International Journal of Applied Mathematics and Computer Science, 28(1), 9-24. doi: https://doi.org/10.2478/amcs-2018-0001	6	1.33	
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41		Cirtoaje, V. A Practical Unified Algorithm of P-IMC Type. Processes 2020, 8, 165. https://doi.org/10.3390/pr8020165	6	2.67	Q1/Q2
42		Tejado, I.; Vinagre, B.M.; Traver, J.E.; Prieto-Arranz, J.; Nuevo-Gallardo, C. Back to Basics: Meaning of the Parameters of Fractional Order PID Controllers. Mathematics 2019, 7, 530. https://doi.org/10.3390/math7060530	6	2.67	Q1/Q2
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44		Almeida, A.M.d.; Lenzi, M.K.; Lenzi, E.K. A Survey of Fractional Order Calculus Applications of Multiple-Input, Multiple-Output (MIMO) Process Control. Fractal Fract. 2020, 4, 22. https://doi.org/10.3390/fractalfract4020022	6	1.33	
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50		Immune response in HIV epidemics for distinct transmission rates and for saturated CTL response Ana R.M. Carvalho and Carla M.A. Pinto Math. Model. Nat. Phenom., 14 3 (2019) 307 DOI: https://doi.org/10.1051/mmnp/2019007	6	2.67	Q1/Q2
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		Total punctaj A3.1.1.		**1380.66**

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	Pop (Muresan), C.-I., Ionescu, C., De Keyser, R., Dulf, E.-H. (2012), Robustness evaluation of Fractional Order Control for Varying Time Delay Processes, Signal, Image and Video Processing, vol. 6, no. 3, pp.453-461, DOI: 10.1007/s11760-012-0322-4	Copot, C. (2019). An application to robot manipulator joint control by using fractional order approach. J. Appl. Nonlinear Dyn., 8(1), 55-66.	4	1
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		Total punctaj A3.1.2.		**71.33**

A3.2.-A3.3. Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, ISI/BDI

Nr.	Nume manifestare	URL	Tip (ISI/BDI)	Punctaj

1	IEEE Mediterranean Control Conference (2013)	Organizator Tutorial "Who's afraid of the fractional order Laplace?", http://med13.du.edu/program.php	ISI	10
2	International Conference on System Theory, Control and Computing ICSTCC 2014	Organizator sesiune speciala "Fractional Order Modeling and Control", http://www.ace.tuiasi.ro/icstcc2014/#	ISI	10
3	IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2016	Organizator sesiune speciala "Applied Fractional Order Calculus", http://www.aqtr.ro/2016/	ISI	10
4	IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014)	Organizator sesiune speciala "Fractional Order Modeling and Control", http://www.aqtr.ro/2014/	ISI	10
5	13th European Workshop on Advanced Control and Diagnosis, 2016	Organizator sesiune speciala "Fractional order systems: methods, tools and practice", http://www.acd2016.eu	ISI	10
6	IFAC World Congress 2017	Organizator sesiune speciala "Fractional Calculus: Theory and Applications" https://www.ifac2017.org/sites/www.ifac2017.org/files/IFAC17_0045_MS_TC22.pdf	ISI	10
7	Journal of Applied Nonlinear Dynamics	Invited editor for special issue on "Advances in Fractional Order Controller Design and Applications" at the Journal of Applied Nonlinear Dynamics, L&H Scientific Publishing, LLC, co-eds. Cosmin Copot, Konrad Markowksi, https://www.lhscientificpublishing.com/Journals/JAND-Download.aspx, DOI:10.5890/JAND.2019.03.001, vol. 8, no. 1, 2019, pp. 1-3	BDI	6
8	Journal of Applied Nonlinear Dynamics	Editor invitat (Muresan, C.I., Ostalczyk, P., Ortigueira, M.D. (2017), Editorial special issue on "Fractional Calculus Applications in Modeling and Design of Control Systems", Journal of Applied Nonlinear Dynamics, vol. 6(2), pp. 131–134, DOI: 10.5890/JAND.2017.06.001), https://www.researchgate.net/profile/Albert_Luo/publication/317170137_Journal_of_Applied_Nonlinear_Dynamics_Vol6_No2/links/593c123e0f7e9b3317518e45/Journal-of-Applied-Nonlinear-Dynamics-Vol6-No2.pdf	BDI	6
9	Applied Sciences	Editor invitat Special Issue "Control and Automation", 2020, https://www.mdpi.com/journal/applsci/special_issues/Control_Automation	ISI	10
10	Applied Sciences	Invited editor Special Issue "Control and Automation, Volume II", 2021, https://www.mdpi.com/journal/applsci/special_issues/Control_Automation_II	ISI	10
11	Mathematics	Editor invitat, Special Issue "Applications of Mathematical Models in Engineering", 2021, https://www.mdpi.com/journal/mathematics/special_issues/math_model_eng	ISI	10
12	Sensors	Editor invitat Special Issue "Fractional Sensor Fusion and Its Applications". 2021, https://www.mdpi.com/journal/sensors/special_issues/sensor_fusion	ISI	10
13	IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2020)	Special Session Organizer („Recent Trends in Modeling and Control Applications"), IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2020), Cluj-Napoca, Romania,21-23.05.2020	ISI	10
14	International Journal of Dynamics and Control	Associated editor https://www.springer.com/engineering/mechanics/journal/40435?detailsPage=editorialBoard	BDI	6

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

Nr	Anul acordarii premiului	Premiul acordat	Organizatia
1	2018	Award for Scientific contributions of fractional order control to vibration suppression systems	IFAC (3rd IFAC Conf. on Advances in Proportional-Integral-Derivative Control, Ghent, Belgium, 9-11 May 2018)
2	2016	"The 2016 Armen H. Zemanian Best Paper Award" for the best paper published in 2016 in Circuits, Systems, and Signal Processing journal (237 papers) in the area of Circuits and Systems	Circuits, Systems, and Signal Processing journal
2	2016	"The 2016 M.N.S. Swamy Best Paper Award" for the best paper published in 2015 and 2016 in Circuits, Systems, and Signal Processing journal (440 papers) in the area of Circuits and Systems	Circuits, Systems, and Signal Processing journal

Data

Candidat Conf. Dr. Ing. Muresan Cristina Ioana

Coordonator Consiliu de coordonare a programelor doctorale Automatica si Calculatoare
Prof. Dr. Ing. Dorian GORGAN

[1]Capitolul de carte editată trebuie să NU fie într-un volum de conferinţă (cu ISBN) şi se punctează cu 1/4 din punctajul pentru cartea din categoria respectivă.
[2]Dacă cartea respectivă se regăseşte în cel puţin 50 de biblioteci din străinătate conform catalogului WorldCat.
[3]Se consideră factorul de impact ISI al revistei valabil în anul publicării sau la data depunerii dosarului. Pentru volumele manifestărilor ISI se consideră factorul de impact echivalent 0.25. Pentru volumele conferinţelor internaţionale de top în domeniul de abilitare se consideră factorul de impact echivalent 0.75 (lista acestora agreată şi ţinută la zi de comisia CNATDCU nr. 15 fiind disponibilă la adresa http://www.cnatdcu-cl5.org/);
[4]Pentru domeniul Calculatoare, Tehnologia Informaţiei şi Ingineria Sistemelor sunt recunoscute următoarele baze de date internaţionale (BDI): ISI, Scopus, IEEE (Institute of Electrical and Electronics Engineers) Xplore, Science Direct, Elsevier, Springerlink, ACM (Association for Computing Machinery), DBLP, EURASIP, Wiley, Inspec
[5]Se dublează punctajul dacă rezultatul este înregistrat la WIPO, EPO, USPTO, JPO.
[6]Nu se consideră în această categorie proiecte/granturi care nu prezintă un caracter predominant de cercetare. Se consideră numai proiecte/granturi relevante pentru profilul postului scos la concurs/domeniul de abilitare. Candidatul va ataşa documente care să demonstreze caracterul de cercetare al proiectului.
[7]Se exclud autocitările (auto-citarea se referă la situaţia în care numele candidatului apare simultan atât printre numele autorilor referinţei bibliografice în cauză cât şi printre numele autorilor articolului care citează, conform WOS https://images.webofknowledge.com/WOKRS523R4/help/WOS/hs_crsearch_self_citations.html)
[8]Se dublează punctajul dacă citarea provine dintr-o revistă cotată ISI aflată printre primele 50% în cadrul subdomeniului (sau al unuia dintre subdomeniile) de acreditare ISI din punct de vedere al factorului de impact (zonele Q1-Q2 în notaţia ISI).
[9]Nu se ia în consideraţie calitatea de recenzor al unor articole individuale.

Formula de calcul a indicatorului de merit (A = A1+A2+A3)

[10]Revistă cotată ISI aflată printre primele 50% în cadrul subdomeniului (sau al unuia dintre subdomeniile) de acreditare ISI din punct de vedere al factorului de impact (zonele Q1-Q2 în notaţia ISI). Situaţia revistelor în top 25-50% (Q1,Q2) se consideră fie la momentul publicării, fie la data înscrierii la concurs. Una şi numai una dintre lucrările necesare poate fi echivalată cu: (un brevet de invenţie indexat WOS-Derwent) sau (1 articolîn conferinţe internaţionale de top în domeniul de abilitare, lista acestora agreată şi ţinută lazi de comisia CNATDCU nr. 15 fiind disponibilă la adresa www.cnatdcu-c15.org).
[11]Lucrarea citată nu este obligatoriu să fie indexată WOS
[12]Pentru brevete se consideră factorul de impact echivalent 0.5, pentru celelalte publicaţii
factorul de impact se calculează conform [3]