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

Nume   **Conf.dr.ing. Ionut Muntean**
Domeniul   **Ingineria Sistemelor**

Nr. Crt	Domeniul activ.	Criteriu		Subcategorii		Indicatori (kpi)	Numar	Punctaj
1	Activitatea didactica si profesionala (A1)			A1.1.1.	Internationale	50/nr autori sau 100/nr. autori cu condiţia[2]	0	0.00
		Cărţi de autor sau capitole [1] de specialitate la edituri cu ISBN		A1.1.2	Nationale	50/nr autori	1	12.50
		Material didactic/Lucrări didactice publicate la edituri cu ISBN		A1.2.1		40/nr autori	4	93.33
						Total punctaj A(1)		105.83
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	18	279.20
		Articole în reviste şi în volumele unor manifestări ştiinţifice indexate în alte baze de date internationale recunoscute (BDI)[4]		A2.2		20 / nr. de autori	9	71.67
		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	3	202.00
				A2.4.1.2	nationale	10 * ani de desfasurare	2	52.50
			Membru in echipa	A2.4.2.1	Internationale	4 * ani de desfasurare	3	13.00
				A2.4.2.2	nationale	2 * ani de desfasurare	1	2.00
						Total punctaj A(2)		620.37
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	66	197.83
				A3.1.2	BDI [4]	4 / nr aut art. citat	2	1.60
		Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, ISI [9]	Punctaj unic pentru fiecare activitate	A3.2		10	0	0.00
		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	3	18.00
		Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaţionale de prestigiu.		A3.4		15	0	0.00
						Total punctaj A(3)		217.43

	Conditii minimale					
Nr.	**Domeniu de activitate (A)**	**Conferentiar**	**CSII**	**Profesor**	**CSI**	**Realizat**
A1	**Activitatea didactica / profesionala (A1)**	50	Fără restricţii	100	Fără restricţii	**105.83**
A2	**Activitatea de cercetare (A2)**	300	350	600	700	**620.37**
A3	**Recunoasterea impactului activitatii (A3)**	50	50	150	150	**217.43**
Total (A)		**400**	**400**	**850**	**850**	943.63
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	**1**
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]	**18**
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	**5**
A3.1.1	**Numar de citari in carti, reviste si volume ale unor manifestari stiintifice ISI [11]**	10	10	25	25	**66**
	Factor de impact ISI cumulat pentru publicaţii [12]	4	4	20	20	**24.51**
	Nr Minim Reviste ISI in zona Q1/Q2	1	1	3	3	**3**

Nume   Conf.dr.ing. Ionut Muntean   **Data**   09.09.2024

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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	E. Culea, R. Muntean, M. Culea, I. Muntean	Fizica, ISBN: 978-973-662-683-8	UTPRESS	2012	12.50

Total punctaj A1.1.1-A1.1.2 **12.50**

A1.2.1. Materiale didactice

Nr.	Autori	Titlu capitol / carte	Editura	Anul	Punctaj
1	I. Muntean	Teoria sistemelor şi automatizări : îndrumător de laborator, ISBN: 978-973-662-815-3	UTPRESS	2013	40
2	L. Tamás, I. Muntean, E. Páll	Hydraulic and pneumatic control equipment, ISBN: 978-606-737-031-7	UTPRESS	2015	13.33
3	C. Abrudan, I. Muntean	Tehnologie și inovare, suport pentru laborator, ISBN 978-606-737-702-6	UTPRESS	2024	20.00
4	I. Muntean, L. Chifor	Indrumator de laborator de electronică, ISBN 978-606-737-701-9	UTPRESS	2024	20.00

Total punctaj A1.2.1 **93.33**

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	I. Muntean, C.-M. Ionescu, and I. Nascu	I. Muntean, C. Ionescu and I. Nascu, "Models for the Respiratory System Using Morphology-Based Electrical Analogy," 2008 First International Conference on Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing, 2008, pp. 243-249, doi: 10.1109/CANS.2008.36.	0.25	3	10.83
2	I. Muntean, C.-M. Ionescu, and I. Nascu	I. Muntean, C.-M. Ionescu, and I. NASCU, "Inverse modeling of the respiratory tree using continued fractions expansions," in ADVANCED BIO-INSPIRED COMPUTATIONAL METHODS, Bucharest, Romania, 2008, pp. 232–239.	0.25	3	10.83
3	I. Muntean, C.-M. Ionescu, and I. Nascu	I. Muntean, C.-M. Ionescu, and I. Nascu, "A simulator for the respiratory tree in healthy subjects derived from continued fractions expansions," in AIP CONFERENCE PROCEEDINGS, Bucharest, Romania, 2008, vol. 1117, pp. 225–231.	0.25	3	10.83
4	I. Muntean, C.-M. Ionescu, and I. Nascu	I. Muntean, C.-M. Ionescu, and I. Nascu, "Morphology-based ladder network modeling of the respiratory mechanics," in COMPLEXITY IN ARTIFICIAL AND NATURAL SYSTEMS, PROCEEDINGS, Mures, Romania, 2008, pp. 219–225.	0.25	3	10.83
5	I. Muntean, M. Unguresan and M. Abrudean	I. Muntean, M. Unguresan and M. Abrudean, "A N-15 isotopic exchange column simulator using partial derivative equations," 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), 2010, pp. 1-4, doi: 10.1109/AQTR.2010.5520889.	0.25	3	10.83
6	C.-M. Ionescu, I. Muntean, J. Tenreiro-Machado, R. De Keyser, and M. Abrudean	**Jurnal ISI Q1-Q2:** C.-M. Ionescu, I. Muntean, J. Tenreiro-Machado, R. De Keyser, and M. Abrudean, "A theoretical study on modeling the respiratory tract with ladder networks by means of intrinsic fractal geometry," IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, vol. 57, no. 2, pp. 246–253, 2010.	4.756	5	33.54
7	Savu, A; Muntean, I; Lazea, G; Agachi, PS	Savu, A., Muntean, I., Lazea, G., & Agachi, P. Ş. (2011). A study for the implementation of an economic optimization of coking plants. Chemical Engineering Transactions, 24, 409-414. https://doi.org/10.3303/CET1124069	0.25	4	8.13
8	I. Muntean, M. L. Unguresan, A. Savu and M. Abrudean	I. Muntean, M. L. Unguresan, A. Savu and M. Abrudean, "Modeling and composition estimation of an isotopic distillation column," Proceedings of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics, 2012, pp. 109-113, doi: 10.1109/AQTR.2012.6237684.	0.25	4	8.13
9	I. Muntean, S. Stan, M. Abrudean and K. Chao	I. Muntean, S. Stan, M. Abrudean and K. Chao, "Remote Management: An Architecture for Mechatronic Systems," 2013 IEEE 10th International Conference on e-Business Engineering, 2013, pp. 498-503, doi: 10.1109/ICEBE.2013.78.	0.25	4	8.13
10	A.A. Racz, I. Muntean, S.-D. Stan	A.A. Racz, I. Muntean, S.-D. Stan, "A Look into Electric/Hybrid Cars from an Ecological Perspective", Procedia Technology, 2015, 19, pp. 438-443	0.25	3	10.83
11	A.A. Busu, I. Muntean, S.-D. Stan	A.A. Busu, I. Muntean, S.-D. Stan, "An analysis of the current challenges of WEEE remanufacturing", Procedia Technology, 2015, 19, pp. 444-450	0.25	3	10.83
12	I. Muntean and I. Clitan,	I. Muntean and I. Clitan, "Digitization of continuous interval transfer functions: A revisited method and its application on a case study," 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, 2014, pp. 1-4, doi: 10.1109/AQTR.2014.6857829.	0.25	2	16.25
13	C. Iulia and I. Muntean,	C. Iulia and I. Muntean, "Internal model control for a hydraulically driven robotic arm," 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, 2014, pp. 1-5, doi: 10.1109/AQTR.2014.6857827.	0.25	2	16.25
14	K.-M. Chao, A.E. James, A.G. Nanos, J.-H. Chen, S.-D. Stan, I. Muntean, G. Figliolini, P. Rea, C.B. Bouzgarrou, J. Cooper, J.v. Capelle,	**Jurnal ISI Q1-Q2:** K.-M. Chao, A.E. James, A.G. Nanos, J.-H. Chen, S.-D. Stan, I. Muntean, G. Figliolini, P. Rea, C.B. Bouzgarrou, J. Cooper, J.v. Capelle, "Cloud E-learning for Mechatronics: CLEM", Future Generation Computer Systems, 2015, 48, pp. 46-59	7.5	12	20.83

15	I. Muntean, R. Both, R. Crisan and I. Nascu,	I. Muntean, R. Both, R. Crisan and I. Nascu, "RGA analysis and decentralized control for a wastewater treatment plant," 2015 IEEE International Conference on Industrial Technology (ICIT), 2015, pp. 453-458, doi: 10.1109/ICIT.2015.7125140.	**0.25**	**4**	8.13
16	N. Kilyen, R. Lemnariu,G.D. Mois, Y. Chen, B. Morris, I. Muntean	**Jurnal ISI Q1-Q2**: N. A. Kilyen, R. F. Lemnariu, G. D. Mois, Y. Chen, B. T. Morris and I. Muntean, "The IEEE ITSS and Bosch Future Mobility Challenge: A Hands-on Start to Autonomous Driving [Technical Activities]," in IEEE Intelligent Transportation Systems Magazine, vol. 13, no. 3, pp. 276-282, Fall 2021, doi: 10.1109/MITS.2021.3081939.	3.6	6	22.17
17	I. Muntean, G.-D. Mois, S.C. Folea	I. Muntean, G.-D. Mois, S.C. Folea , Development and Analysis of Low-Cost IoT Sensors for Urban Environmental Monitoring, INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, [S.l.], v. 16, n. 5, sep. 2021. ISSN 1841-9844. Available at: <http://univagora.ro/jour/index.php/ijccc/article/view/4260>. Date accessed: 29 oct. 2021. doi: https://doi.org/10.15837/ijccc.2021.5.4260.	2.7	3	35.33
18	N. A. Kilyen, R. F. Lemnariu, I. Muntean, G. D. Mois	An Indoor Localization System for Automotive Driving Competitions, INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, https://doi.org/10.15837/ijccc.2024.1.6030	2.7	4	26.50

Factor impact cumulat	24.506
Total punctaj A2.1.	**279.20**

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	C Ionescu, I Muntean, R De Keyser	C. Ionescu, I. Muntean, and R. De Keyser, "The Respiratory Impedance in an Asymmetric Model of the Lung Structure", BRAIN, vol. 1, pp. pp. 101-108, Jan. 2011.	oogle Schola	3	0.00
2	A Savu, I Muntean, G Lazea, PŞ Agachi	A. Savu, I. Muntean, G. Lazea, and P.S. Agachi, "A study for the implementation of an economic optimization of coking plants." Chemical Engineering Transactions, vol. 24, pp. 409-414, 2011 https://doi.org/10.3303/CET1124069	Scopus	4	5.00
3	CM Ionescu, I Muntean, R De Keyser	C.-M. Ionescu, I. Muntean, and R. De Keyser, "The influence of asymmetric space filling in the human lung," ACTA UNIVERSITATIS APULENSIS. MATHEMATICS-INFORMATICS, pp. 28–36, 2011.	oogle Schola	3	0.00
4	T Liu, I Muntean, Y Wang	T. Liu, I. Muntean and Y. Wang, "Two-Dimensional Iterative Learning Control for Batch Processes with State Delay and Time-Varying Uncertainties", IFAC Proceedings Volumes, vol. 44, 2011	oogle Schola	3	0.00
5	I. Muntean, M. Stuckert, M. Abrudean	I. Muntean, M. Stuckert and M. Abrudean, "A general distillation modeling framework applied to an isotopic distillation column," 2011 19th Mediterranean Conference on Control & Automation (MED), 2011, pp. 1150-1154, doi: 10.1109/MED.2011.5983157.	IEEE	3	6.67
6	I Muntean	I. Muntean, "On the plantwide control of the Acetone-Chloroform-Benzene-Toluene separation process – a two layer control architecture," 2020 24th International Conference on System Theory, Control and Computing (ICSTCC), 2020, pp. 781-787, doi: 10.1109/ICSTCC50638.2020.9259681	Scopus	1	20.00
7	I Muntean	I. Muntean, "Proof of concept system for supporting energy efficiency in office buildings," 2021 9th International Conference on Modern Power Systems (MPS), 2021, pp. 1-4, doi: 10.1109/MPS52805.2021.9492649.	IEEE	1	20.00
8	I. Clitan, I. Muntean	I. Clitan and I. Muntean, "Direct-Current Motor Speed Control Using a PID Discrete Controller," 2021 9th International Conference on Modern Power Systems (MPS), 2021, pp. 1-5, doi: 10.1109/MPS52805.2021.9492727.	IEEE	2	10.00
9	R. Both, I. Muntean	R. -B. Roxana and M. Ionut, "Advanced Control Design for Anti-Lock Braking Systems," 2021 9th International Conference on Modern Power Systems (MPS), 2021, pp. 1-6, doi: 10.1109/MPS52805.2021.9492667.	IEEE	2	10.00

Total punctaj A2.2.	**71.67**

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

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	National	Contract UTCN cu tertii nr. 20051 din 21.08.2020: Contract de cercetare pentru algoritmi de control in mediul industrial si analiza trendurilor pentru piata utilajelor industriale	2020-2022	2.25	22.5
2	National	NetZeRoCities - National Competence Centre and solutions for the development of Climate Neutral and Smart Cities – 6/16.11.2022 finanțat prin Planul Național de Redresare și Reziliență Apel nr. PNRR-III-C9-2022 – I5	2023-2025	3.00	30

Total proiecte nationale	52.5

3	International	HORIZON-KDT-JU-2021-1-IA, ID: 101096387 [PowerizeD] Digitalization of Power Electronic Applications within Key Technology Value Chains	2023-2025	3	60
4	International	HORIZON-CL5-2023-D5-01-02, ID: 101137975 [InnoBMS] Situationally aware innovative battery management system for next generation vehicles	2024-2027	3.5	70
5	International	IPCEI ME-CT [EuroDrives] European microelectronics value chain for highly automated driving and green mobility	2023-2026	3.6	72

Total punctaj A2.4.1   **254.5**

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

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	International	HOME/2012/ISEC/AG/FINEC/4000003870: Tool for Enforcing Competition Law (TECOL) -contract 32945/23.05.2013	2013-2015	1.92	7.67
2	International	GREENET FP7: Globally Recoverable and Eco-friendly E-equipment Network with Distributed Information Service Management -contract 34502/11.06.2014	2014	0.08	0.33
	International	GREENET FP7: Globally Recoverable and Eco-friendly E-equipment Network with Distributed Information Service Management -contract 34647/08.10.2014	2014	0.17	0.67
3	International	518656-LLP-1-2011-1-UK-Leonardo-LMP:Cloud E-learning in Mechatronics Technology (CLEM) -contract 35661/11.11.2014	2014-2015	1.08	4.33
			Total international		13
4	National	PCCA 274/2014: Strategii de conducere bazate pe tehnici de control avansat pentru optimizarea performantelor statiilor de epurare a apelor uzate si reducerea consumurilor energetice.	2016-2018	1.00	2
				Total national	2

Total punctaj A2.4.1   **15**

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

Nr.	Articol citat	Articol care citeaza	Numar autori	Punctaj
1	I. Muntean, R. Both, R. Crisan and I. Nascu, "RGA analysis and decentralized control for a wastewater treatment plant," 2015 IEEE International Conference on Industrial Technology (ICIT), 2015, pp. 453-458, doi: 10.1109/ICIT.2015.7125140.	S.S. Anchan, and C.S. Rao, " Robust decentralized proportional–integral controller design for an activated sludge process" in Asia-Pac J Chem Eng. 2020; 15:e2531. https://doi.org/10.1002/apj.2531	4	4.00
2	I. Muntean, R. Both, R. Crisan and I. Nascu, "RGA analysis and decentralized control for a wastewater treatment plant," 2015 IEEE International Conference on Industrial Technology (ICIT), 2015, pp. 453-458, doi: 10.1109/ICIT.2015.7125140.	J.C. Figueroa-Estrada, M.I. Neria-González, R. Rodríguez Vázquez, E.N. Tec-Caamal, and R. Aguilar-López, "Controlling a continuous stirred tank reactor for zinc leaching", in Minerals Engineering, vol 157, 2020, https://doi.org/10.1016/j.mineng.2020.106549.	4	4.00
3	C. M. Ionescu, I. Muntean, J. A. Tenreiro-Machado, R. De Keyser and M. Abrudean, "A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry," in IEEE Transactions on Biomedical Engineering, vol. 57, no. 2, pp. 246-253, Feb. 2010, doi: 10.1109/TBME.2009.2030496.	E. Saatci and E. Saatci, "State-space analysis of fractional-order respiratory system models," in Biomedical Signal Processing and Control, vol. 57, 2020, https://doi.org/10.1016/j.bspc.2019.101820.	5	3.20
4	C. M. Ionescu, I. Muntean, J. A. Tenreiro-Machado, R. De Keyser and M. Abrudean, "A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry," in IEEE Transactions on Biomedical Engineering, vol. 57, no. 2, pp. 246-253, Feb. 2010, doi: 10.1109/TBME.2009.2030496.	M. Antonelli, S. Cattaruzza, and F. Strano, "Vittorio Benussi's "Emotional Functional Autonomy": Resumption and Re-Evaluation," in International Journal of Clinical and Experimental Hypnosis, vol. 68:3, pp. 384-399, 2020. DOI: 10.1080/00207144.2020.1757386	5	3.20
5	A.A. Racz, I. Muntean, S.-D. Stan, "A Look into Electric/Hybrid Cars from an Ecological Perspective", Procedia Technology, 2015, 19, pp. 438-443	E.E. Michaelides," Thermodynamics and energy usage of electric vehicles," in Energy Conversion and Management,vol. 203, 2020, https://doi.org/10.1016/j.enconman.2019.112246.	3	5.33
6	C. M. Ionescu, I. Muntean, J. A. Tenreiro-Machado, R. De Keyser and M. Abrudean, "A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry," in IEEE Transactions on Biomedical Engineering, vol. 57, no. 2, pp. 246-253, Feb. 2010, doi: 10.1109/TBME.2009.2030496.	F. Nazarimehr, V.T. Pham, and T. Kapitaniak, "Prediction of bifurcations by varying critical parameters of COVID-19," in Nonlinear Dynamics, vol. 101, pp. 1681–1692, 2020. https://doi.org/10.1007/s11071-020-05749-6	5	3.20
7	C. M. Ionescu, I. Muntean, J. A. Tenreiro-Machado, R. De Keyser and M. Abrudean, "A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry," in IEEE Transactions on Biomedical Engineering, vol. 57, no. 2, pp. 246-253, Feb. 2010, doi: 10.1109/TBME.2009.2030496.	Z.M. Shah, M.Y. Kathjoo, F.A. Khanday, K. Biswas, and C. Psychalinos, "A survey of single and multi-component Fractional-Order Elements (FOEs) and their applications," in Microelectronics Journal, vol. 84, pp. 9-25, 2019. https://doi.org/10.1016/j.mejo.2018.12.010.	5	3.20
8	C. Iulia and I. Muntean, "Internal model control for a hydraulically driven robotic arm," 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, 2014, pp. 1-5, doi: 10.1109/AQTR.2014.6857827.	W. Yuan, X. Zheng, H. Li, and X. Li, "An Internal Model Control-Cascade Proportion-Integration-Differentiation Method for Manipulation of Nano-Quad-Rotors." Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering vol. 233, pp. 2948-2955, 2019. https://doi.org/10.1177/0954410018824928.	2	4.00
9	C. M. Ionescu, I. Muntean, J. A. Tenreiro-Machado, R. De Keyser and M. Abrudean, "A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry," in IEEE Transactions on Biomedical Engineering, vol. 57, no. 2, pp. 246-253, Feb. 2010, doi: 10.1109/TBME.2009.2030496.	A.M. Lopes, J.A. Tenreiro Machado, and A.M. Galhano, "Towards fractional sensors," in Journal of Vibration and Control, vol. 25(1), pp. 52-60, 2019. doi:10.1177/1077546318769163	5	3.20
10	C. M. Ionescu, I. Muntean, J. A. Tenreiro-Machado, R. De Keyser and M. Abrudean, "A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry," in IEEE Transactions on Biomedical Engineering, vol. 57, no. 2, pp. 246-253, Feb. 2010, doi: 10.1109/TBME.2009.2030496.	C. Vastarouchas, G. Tsirimokou, T.J. Freeborn, and C. Psychalinos, "Emulation of an electrical-analogue of a fractional-order human respiratory mechanical impedance model using OTA topologies," in AEU - International Journal of Electronics and Communications, vol. 78,pp. 201-208, 2017. https://doi.org/10.1016/j.aeue.2017.03.021.	5	3.20

11	C. M. Ionescu, I. Muntean, J. A. Tenreiro-Machado, R. De Keyser and M. Abrudean, "A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry," in IEEE Transactions on Biomedical Engineering, vol. 57, no. 2, pp. 246-253, Feb. 2010, doi: 10.1109/TBME.2009.2030496.	C. Ionescu, and J.F. Kelly, "Fractional calculus for respiratory mechanics: Power law impedance, viscoelasticity, and tissue heterogeneity," in Chaos, Solitons & Fractals, vol. 102, pp. 433-440, 2017. https://doi.org/10.1016/j.chaos.2017.03.054.	5	3.20
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61	A.A. Busu, I. Muntean, S.-D. Stan, "An analysis of the current challenges of WEEE remanufacturing", Procedia Technology, 2015, 19, pp. 444-450	Zhang, W., Zheng, Y., Ma, W. and Ahmad, R., 2023. Multi-task scheduling in cloud remanufacturing system integrating reuse, reprocessing, and replacement under quality uncertainty. Journal of Manufacturing Systems, 68, pp.176-195.	3	5.33
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64	A.A. Busu, I. Muntean, S.-D. Stan, "An analysis of the current challenges of WEEE remanufacturing", Procedia Technology, 2015, 19, pp. 444-450	Zlamparet, G.I., Ijomah, W., Miao, Y., Awasthi, A.K., Zeng, X. and Li, J., 2017. Remanufacturing strategies: A solution for WEEE problem. Journal of Cleaner Production, 149, pp.126-136.	3	5.33
65	C. Iulia and I. Muntean, "Internal model control for a hydraulically driven robotic arm," 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, 2014, pp. 1-5, doi: 10.1109/AQTR.2014.6857827.	Michalik, P., Molnár, V., Fedorko, G., Stehlíková, B., Tirpák, P. and Macej, J., 2021. Research on the Influence of Production Technologies on the Positioning Accuracy of a Robotic Arm for Low-Handling Weights. Applied Sciences, 11(13), p.6104.	2	8.00
66	I. Muntean, M. Stuckert and M. Abrudean, "A general distillation modeling framework applied to an isotopic distillation column," 2011 19th Mediterranean Conference on Control & Automation (MED), 2011, pp. 1150-1154, doi: 10.1109/MED.2011.5983157.	Singh, A.K., Tyagi, B. and Kumar, V., 2013. First principle modeling and neural network–based empirical modeling with experimental validation of binary distillation column. Chemical Product and Process Modeling, 8(1), pp.53-70.	3	2.67
	Total punctaj A3.1.1.			**197.83**

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

Nr.	Articol citat	Articol care citeaza	Numar autori	Punctaj
1	C. M. Ionescu, I. Muntean, J. A. Tenreiro-Machado, R. De Keyser and M. Abrudean, "A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry," in IEEE Transactions on Biomedical Engineering, vol. 57, no. 2, pp. 246-253, Feb. 2010, doi: 10.1109/TBME.2009.2030496.	A. R. M.V., S. Yadav, P. K. Ghosh, "A dual source-filter model of snore audio for snorer group classification," Proc. Interspeech 2017, pp. 3502-3506. DOI: 10.21437/Interspeech.2017-1211	5	0.8
	C. M. Ionescu, I. Muntean, J. A. Tenreiro-Machado, R. De Keyser and M. Abrudean, "A Theoretical Study on Modeling the Respiratory Tract With Ladder Networks by Means of Intrinsic Fractal Geometry," in IEEE Transactions on Biomedical Engineering, vol. 57, no. 2, pp. 246-253, Feb. 2010, doi: 10.1109/TBME.2009.2030496.	C. M. Ionescu, D. Copot and R. De Keyser, "Parameterization through fractional calculus of the stress-strain relation in lungs," 2014 European Control Conference (ECC), 2014, pp. 510-515, doi: 10.1109/ECC.2014.6862281.	5	0.8

Total punctaj A3.1.2. 1.60

Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, ISI/BDI

	Nume manifestare	URL	Tip (ISI/BDI)	Punctaj
1	IEEE Intelligent Transportation Systems Society, Membru în comisia "Self Driving Automobiles"			
2	11th IEEE International Conference on e-Business Engineering (ICEBE 2014)	https://conferences.computer.org/icebe/2014/program_committee.htm	BDI	6
3	2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR)	https://dokumen.tips/documents/aqtr-2012-program.html	BDI	6
4	IEEE 27th International Symposium for Design and Technology in Electronic Packaging (SIITME2021)	https://siitme.ro/2021-edition/committees/		
5	36th IEEE Intelligent Vehicle Symposium (IEEE IV2025)	https://ieee-iv.org/2025/	BDI	6

Total punctaj A3.3 18

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Data
09.09.2024