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

Candidat Ioana Nascu
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/nrautori sau 100/nr. autori cu condiţia[2]	6	0.00
				A1.1.2	Nationale	50/nr autori	1	121.07
		Material didactic/Lucrări didactice publicate la edituri cu ISBN		A1.2.1		40/nr autori	1	20.00
						Total punctaj A(1)		**141.07**
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	46	913.96
		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	13	116.86
		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	1	40.00
				A2.4.1.2	nationale	10 * ani de desfasurare	2	20.00
			Membru in echipa	A2.4.2.1	Internationale	4 * ani de desfasurare	3	40.00
				A2.4.2.2	nationale	2 * ani de desfasurare	1	4.00
						Total punctaj A(2)		**1134.82**
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	427	1387.87
				A3.1.2	BDI [4]	4 / nr autart. citat	3	717.62
		Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, ISI [9]	Punctaj unic pentru fiecare activitate	A3.2		10	7	70.00
		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	0	0.00
		Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaţionale de prestigiu.		A3.4		15	2	30.00
						Total punctaj A(3)		**2205.49**

Conditii minimale						
Nr.	**Domeniu de activitate (A)**	**Conferentiar**	**CSII**	**Profesor**	**CSI**	**Realizat**
A1	**Activitatea didactica / profesionala (A1)**	50	Fără restricţi	100	Fără restricţi	**141.07**
A2	**Activitatea de cercetare (A2)**	300	350	600	700	**1134.82**
A3	**Recunoasterea impactului activitatii (A3)**	50	50	150	150	**2205.49**
Total (A)		**400**	**400**	**850**	**850**	**3481.38**
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]	**46.00**
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	**3.00**
A3.1.1	**Numar de citari in carti, reviste si volume ale unor manifestari stiintifice ISI [11]**	10	10	25	25	**427.00**
	Factor de impact ISI cumulat pentru publicaţii [12]	4	4	10	10	**66.25**
	Nr Minim Reviste ISI in zona Q1/Q2	1	1	3	3	**13.00**

Candidat

Data **17.06.2025**

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	I. Nașcu, I. Nașcu,	Sisteme de Conducere a Proceselor Continue I. ISBN 978-606-737-787-3	UTPRESS	2025	50.00
2	Pistikopoulos, E. N., I. Nascu and E. Velliou	Modelling Optimization and Control of Biomedical Systems. ISBN 978-1-118-96558-0	John Wiley & Sons Ltd.	2018	33.33

3	E. Velliou, I. Nascu, Stamatina Zavitsanou, Eleni Pefani, Alexandra Krieger, Michael C. Georgiadis, and Efstratios N. Pistikopoulos.	Framework and Tools: A Framework for Modelling, Optimization and Control of Biomedical Systems, 2017, pp. 1-11, DOI:10.1002/9781118965580.ch1	John Wiley & Sons Ltd.	2018	3.57
4	Naşcu, I., Oberdieck, R., Lambert, R., Rivotti, P. and Pistikopoulos, E.N.	Computational Tools and Methods. In Modelling Optimization and Control of Biomedical Systems (eds E.N. Pistikopoulos, I. Naşcu and E.G. Velliou). https://doi.org/10.1002/9781118965580.ch2	John Wiley & Sons Ltd.	2018	4.17
5	A. Krieger, I. Naşcu, N. Panoskaltsis, A. Mantalaris, M. C. Georgiadis, and E. N. Pistikopoulos	Volatile Anaesthesia," in Modelling Optimization and Control of Biomedical Systems, 2017, pp. 67-102, DOI:10.1002/9781118965580.ch3	John Wiley & Sons Ltd.	2018	5.00
6	Naşcu, I., Krieger, A., Lambert, R. and Pistikopoulos, E.N.	Intravenous Anaesthesia. In Modelling Optimization and Control of Biomedical Systems (eds E.N. Pistikopoulos, I. Naşcu and E.G. Velliou). https://doi.org/10.1002/9781118965580.ch4	John Wiley & Sons Ltd.	2018	6.25
7	Papathanasiou, M. M., M. Oneil, I. Nascu and E. N. Pistikopoulos	Computational tools in the assistance of personalized healthcare. Quantitative Systems Pharmacology. ISBN 978-0444639646. DOI 10.1016/b978-0-444-63964-6.00006-4	Elsevier	2018	6.25
8	I. Naşcu, I. Naşcu, R. Crişan, S. Folea	Echipamente şi sisteme de automatizare, ISBN 978-606-737-099-7	UTPRESS	2015	12.50
				Total	121.07

A1.2.1. Materiale didactice

1	Ruben Crişan, Ioana Naşcu	Sisteme de Conducere a Proceselor Continue, ISBN 978-973-662-794-1	UTPRESS	2013	20
				Total	20.00

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	Naşcu, I., Diangelakis, N. A., Muñoz, S. G. and Pistikopoulos, E. N.	Advanced model predictive control strategies for evaporation processes in the pharmaceutical industries', Computers & Chemical Engineering, 173, 108212. May 2023, https://doi.org/10.1016/j.compchemeng.2023.108212	4.33	4	38.73	Q1/Q2
2	Nascu, Ioana, Daniel Sebastia-Saez, Tao Chen, Ioan Nascu, Wenli Du	Global Sensitivity Analysis for a Perfusion Bioreactor based on CFD Modelling, Computers Chemical Engineering, Volume 163, July 2022, https://doi.org/10.1016/j.compchemeng.2022.107829	4.33	5	30.98	Q1/Q2
3	Ghita Mihaela, Isabela Birs, Dana Copot, Ioana Nascu, and Clara-Mihaela Ionescu	Impedance Spectroscopy Sensing Material Properties for Self-Tuning Ratio Control in in Pharmaceutical Industry, Applied Sciences, 12: 509, DOI:10.3390/app12010509	2.679	5	21.07	Q1/Q2
4	Jinquan Zheng , Wenli Du , Ioana Nascu , Yuanming Zhu , Weimin Zhong	An interval type-2 fuzzy controller based on data driven parameters extraction for cement calciner process, IEEE ACCESS, 2020. 8: p. 61775-61789, 2020, doi: 10.1109/ACCESS.2020.2983476	3.476	5	25.86	Q1/Q2
5	Jingjing Guo, Wenli Du, Ioana Nascu,	Adaptive modeling of fixed bed reactor with multi-cycle and multi-mode characteristics based on transfer learning and just-in-time learning, Industrial Engineering Chemistry Research, 2020. 59(14): p. 6629-6637.	4.326	3	51.59	Q1/Q2
6	Nascu, I., Oberdieck, R., & Pistikopoulos, E. N.	Explicit hybrid model predictive control strategies for intravenous anaesthesia. Special issue of Computers and Chemical Engineering, 2017, vol. 106, pp. 814-825. doi:10.1016/j.compchemeng.2017.01.033	4.33	3	51.63	Q1/Q2
7	Nascu, I., & Pistikopoulos, E. N.	Modeling, estimation and control of the anaesthesia process. Special issue in Computers and Chemical Engineering in honor of Prof. Rafiq Gani, 2017, vol. 107, pp. 318-332. doi:10.1016/j.compchemeng.2017.02.016	4.33	2	77.45	Q1/Q2
8	Nascu, I.; Pistikopoulos, E. N	A Multiparametric Model-Based Optimization & Control Approach to Anaesthesia, The Canadian Journal of Chemical Engineering 2016, vol. 94 (11), pp. 2125-2137.	2.6	2	51.50	Q1/Q2
9	Nascu, I., A. Krieger, C. M. Ionescu and E. N. Pistikopoulos	Advanced Model-Based Control Studies for the Induction and Maintenance of Intravenous Anaesthesia. IEEE Transactions on Biomedical Engineering, 2015, vol. 62(3):pp. 832-841	4.756	3	55.89	Q1/Q2
10	Pistikopoulos, E. N., N. A. Diangelakis, R. Oberdieck, M. M. Papathanasiou, I. Nascu and M. Sun	PAROC-An integrated framework and software platform for the optimisation and advanced model-based control of process systems. Chemical Engineering Science., 2015 vol. 136, pp. 115-138	4.311	6	25.72	Q1/Q2
11	Oberdieck, R.; Diangelakis, N. A.; Papathanasiou, M. M.; Nascu, I.; Pistikopoulos, E. N.	"POP - Parametric Optimization Toolbox". Industrial & Engineering Chemistry Research 2016, vol. 55 (33), pp. 8979-8991.	4.326	5	30.96	Q1/Q2
12	Oberdieck, R., N. A. Diangelakis, I. Nascu, M. M. Papathanasiou, M. Sun, S. Avraamidou and F. N. Pistikopoulos	On multi-parametric programming and its applications in process systems engineering, Chemical Engineering Research and Design, 2016, vol. 116: pp. 61-82.	4.119	7	21.22	Q1/Q2
13	Harja, G., I. Nascu, C. Muresan and I. Nascu	Improvements in Dissolved Oxygen Control of an Activated Sludge Wastewater Treatment Process." Circuits, Systems and Signal Processing, 2016, vol. 35(6): pp. 2259-2281	2.311	4	23.58	Q1/Q2
14	Ionescu, C. M., I. Nascu and R. De Keyser	Lessons learned from closed loops in engineering: towards a multivariable approach regulating depth of anaesthesia." Journal of Clinical Monitoring and Computing, 2013 vol. 28(6), pp. 537-546	1.997	3	28.50	

15	Nascu, Ioana, N. A. Diangelakis, Yan-Shu Huang and Zoltan K. Nagy	Multiparametric Model Predictive Control Strategies for a Rotary Tablet Press in Pharmaceutical Industry', 33nd European Symposium on Computer Aided Process Engineering; 2024, Computer Aided Chemical Engineering.	0.25	4	8.13
16	Ioana Naşcu, Gabriel Harja, Mihai Stanese, Ioan Naşcu	Aalternating aeration control and optimisation in activated sludge processes, 2024 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), 16-18 May, Cluj-Napoca, Romania	0.25	4	8.13
17	Ioana Nascu, Ioan Nascu	Multilevel predictive control system for an activated sludge wastewater treatment process, 5th Int.Conf. on Mathematics and Computers in Sciences and Industry- MCSI2018,Corfu Island, Greece, August 25-27, 2018	0.25	2	16.25
18	Nascu, Ioana, N. A. Diangelakis, and E. Pistikopoulos	Multiparametric Model Predictive Control Strategies for Evaporation Processes in Pharmaceutical Industries, 32nd European Symposium on Computer Aided Process Engineering; Elsevier, 2022, Computer Aided Chemical Engineering.	0.25	3	10.83
19	Nascu Ioana, Ioan Nascu, and W. Du	Optimization and Control of a Perfusion Bioreactor System in Tissue Engineering', Proceedings of 2022 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, AQTR	0.25	3	10.83
20	Nascu Ioana, Tao Chen, and Wenli Du	Global Sensitivity Analysis for a perfusion bioreactor system in tissue engineering', IFAC-PapersOnLine, 54: 550-55	1.132	3	19.65
21	Nascu, I., T. Chen, W. Du, and I. Nascu	"Global Sensitivity Analysis for the input parameters of a Perfusion Bioreactor System in Tissue Engineering." In 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), 172-77	0.25	4	8.13
22	Nascu, I., D. Sebastia-Saez, T. Chen, and W. Du	A combined computational-fluid-dynamics model and control strategies for perfusion bioreactor systems in tissue engineering. In IFAC-PapersOnLine, 2021, 324-29	1.132	4	14.74
23	Nascu Ioana; Pistikopoulos E.; Nascu Ioan	Hybrid Multiparametric Model Predictive Control with Application to the Neuromuscular Blockade, 2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), May 24-26, Cluj-N, Romania, DOI: 10.1109/AQTR.2018.8402747	0.25	3	10.83
24	Ioana Nascu, Ioan Nascu	Improving Activated Sludge Wastewater Treatment Process Efficiency Using Predictive Control, Advances in Technology Innovation(AITI), Vol.3 No.2 2018, ISSN 2415-0436	0.25	2	16.25
25	Nascu, I. and E. N. Pistikopoulos	Multiparametric model predictive control strategies of the hypnotic component in intravenous anesthesia. 2016 IEEE International Conference on Systems, Man, and Cybernetics, SMC 2016 - Conference Proceedings.	0.25	2	16.25
26	Nascu, I.; Oberdieck, R.; Pistikopoulos, E. N.	A framework for Simultaneous State Estimation and Robust Hybrid Model Predictive Control in Intravenous Anaesthesia". 26th European Symposium on Computer Aided Process Engineering; Elsevier, 2016;, Computer Aided Chemical Engineering vol. 38 pp 1057-1062.	0.25	3	10.83
27	Nascu, I. and E. Pistikopoulos	Multiparametric Model Predictive Control and State Estimation of the Hypnotic Component in Anesthesia" , Proceedings of 2016 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, AQTR 2016, Cluj-Napoca, DOI: 10.1109/AQTR.2016.7501357	0.25	2	16.25
28	Nascu, I.; Diangelakis, N. A.; Oberdieck, R.; Papathanasiou, M. M.; Pistikopoulos, E. N.	Explicit MPC in real-world applications: The PAROC framework". American Control Conference (ACC); 2016; pp 913-918.	1.26	5	12.56
29	Ioana Nascu, Ioan Nascu, G. Vlad	Predictive adaptive control of an activated sludge wastewater treatment process, Advances in Technology Innovation(AITI), vol.1 No.2 2016, pp: 38-40, ISSN 2415-0436	0.25	3	10.83
30	Ioana Nascu, Ioan Nascu	Modelling and optimization of an activated sludge wastewater treatment process, Computer Aided Chemical Engineering, vol 38, 2016, pp 1159-1164, ISBN: 978-0-444-63428-3, doi:10.1016/B978-0-444-63428-3.50198-3	0.731	2	23.47
31	Nascu, I.; Oberdieck, R.; Pistikopoulos, E. N.	A framework for hybrid multi-parametric model-predictive control with application to intravenous anaesthesia". 12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering; Elsevier,2015,Computer Aided Chemical Engineering vol. 37, pp 719-724.	0.25	3	10.83
32	Nascu, I.; Oberdieck, R.; Pistikopoulos, E. N.	for Intravenous Anaesthesia". 9th IFAC Symposium on Biological and Medical Systems (BMS); 2015;, IFACPapersOnLine vol. 48 pp 58-63.	0.25	3	10.83
33	Nascu, I.; Oberdieck, R.; Pistikopoulos, E. N.	Offset-free explicit hybrid model predictive control of intravenous anaesthesia". IEEE International Conference on Systems, Man and Cybernetics (SMC); 2015; pp 2475-2480.	0.25	3	10.83333333
34	Nascu, I., R. Oberdieck and E. N. Pistikopoulos	Simultaneous multi-parametric hybrid model predictive control and estimation with application to the intravenous anaesthesia. Computing and Systems Technology Division 2015 - Core Programming Area at the 2015 AIChE Annual Meeting.	0.25	3	10.83333333
35	Nascu, I.; Lambert, R. S. C.; Krieger, A.; Pistikopoulos, E. N.	Simultaneous multi-parametric model predictive control and state estimation with application to distillation column and intravenous anaesthesia". 24th European Symposium on Computer Aided Process Engineering; Elsevier, 2014;, Computer Aided Chemical Engineering vol. 33, pp 541-546.	0.25	4	8.125
36	Nascu, I.; Lambert, R. S. C.; Pistikopoulos, E. N.	RA combined estimation and multi-parametric model predictive control approach for intravenous anaesthesia". IEEE International Conference on Systems, Man and Cybernetics; 2014; pp 2458-2463.	0.25	3	10.83333333
37	Nascu, Ioana, Ionescu CM, Nascu I, De Keyser R,	Adaptive EPSAC predictive control of the hypnotic component in anesthesia", Proceedings of 2012 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, AQTR 2012, May 24-27, Cluj-N, Romania, pp:103-108, IEEEXplore DOI: 10.1109/AQTR.2012.6237683	0.25	3	10.83333333

38	Nascu, Ioana, Ionescu CM, Nascu I, De Keyser R.	Evaluation of three protocols for automatic DOA regulation using Propofol and Remifentanil ",Proceedings of 9th IEEE International Conference on Control & Automation 2011, Santiago, Chile, 19-21 Dec. 2011, pp: 573 – 578, ISBN: 978-1-4577-1475-7,	0.25	4	8.125
39	Nascu, I., R. De Keyser, I. Nascu and T. Buzdugan	Modeling and simulation of a level control system. 2010 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2010 – Proceedings, , vol.1, pp:181-186, ISBN 978-1-4244-6722-8, IEEEXplore DOI: 10.1109/AQTR.2010.5520894	0.25	4	8.125
40	Papathanasiou, M. M.; Oberdieck, R.; Avraamidou, S.; Nascu, I.; Mantalaris, A.; Pistikopoulos, E. N.	Development of advanced control strategies for periodic systems: An application to chromatographic separation processes. American Control Conference (ACC); 2016; pp 4175-4180.	1.26	6	10.46666667
41	Birs I., Nascu Ioana, Darab C., Nascu Ioan	Modelling and calibration of a conventional activated sludge wastewater treatment plant, 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Pp: 1 - 6, DOI: 10.1109/AQTR.2016.7501327	0.25	4	8.125
42	Papathanasiou, M. M.; Steinebach, F.; Stroehlein, G.; Müller-Späth, T.; Nascu, I.; Oberdieck, R.; Morbidelli, M.; Mantalaris, A.; Pistikopoulos, E. N.	A control strategy for periodic systems - application to the twin-column MCSGP. 12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering; Elsevier, 2015;, Computer Aided Chemical Engineering 37 pp 1505-1510.	0.25	9	3.611111111
43	Lambert, R. S. C.; Nascu, I.; Pistikopoulos, E. N	Simultaneous reduced order multi-parametric moving horizon estimation and model based control. IFAC Proceedings Volumes (IFAC-PapersOnline); 2013; Paper PART 1, pp 45-50.	1.132	3	19.65333333
44	Hodrea, R., I. Nascu, I. Nascu, R. De Keyser and H. Vasian	EPSAC versus PID control of neuromuscular blockade. Proceedings of 2014 IEEE International Conference on Automation, Quality and Testing, Robotics, AQTR 2014	0.25	5	6.5
45	I. Nascu, R. De Keyser, Ioana Nascu, T. Buzdugan,	Modeling and Simulation of a Level Control System, Proceedings of 2010 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics, AQTR 2010, May 28-30, Cluj-N, Romania, Vol.1, pp:181-186, ISBN 978-1-4244-6722-8, IEEEXplore DOI: 10.1109/AQTR.2010.5520894	0.25	4	8.125
46	Ionescu, C. M., I. Nascu and R. De Keyser	Towards a multivariable model for controlling the depth of anaesthesia using propofol and Remifentanil. IFAC Proceedings Volumes (IFAC-PapersOnline).	1.132	3	19.65333333
		Factor impact cumulat	66.25		
		Total punctaj A2.1.			**913.96**

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	Ioana Naşcu, Gabriel Harja, Ioan Naşcu	Predictive Control of Intermittent Aeration in Activated Sludge Processes, WSEAS Transactions on Systems and Control,2024, Vol.19, page 494	Scopus	4	5
2	Ioana Naşcu, Z. Nagy, Ioan Nascu	Application of Model Based Predictive Control for a Rotary Tablet Press, International Conference on Electrical, Computer, Communications and Mechatronics Engineering, ICECCME 2024, Male, 4-6 nov.2024	Scopus	3	6.666666667
3	Ioana Naşcu, Wenli Du, Ioan Naşcu	Aeration Optimization and Control for Wastewater Treatment Processes", 33rd European Symposium on Computer Aided Process Engineering (ESCAPE33)), Athens, Greece, 18-21 June 2023, Computer Aided Chemical Engineering, Vol 52, pp 1637-1642, ISSN 1570-7946, DOI 10.1016/B978-0-443-15274-0.50260	Scopus	3	6.666666667
4	Ioana Naşcu, G. Harja, Ioan Naşcu,	An Auto-tuning method for alternating aeration control in activated sludge processes, IEEE 2023 27th International Conference on Circuits, Systems, Communications and Computers (CSCC), Rhodes, Greece, 19-22 iul.2023, IEEE Catalog Number: CFP23B16-ART, ISBN: 979-8-3503-3759-4	Scopus	3	6.666666667
5	Ioana Naşcu, Wenli Du, Ioan Naşcu	An Auto-tuning method for aeration control in activated sludge wastewater treatment processes , IEEE 2022 International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2022), Male, 16-18 nov.2022	Scopus	3	6.666666667
6	Ioana Nascu, Ioan Nascu, Wen-Li Du, Sai Gu,	Predictive Control for Continuous Stirred Tank Reactors, 2019 International Conference on Informatics, Control and Robotics (ICICR 2019) ISBN:978-1-60595-633-6, DEStech Trans on Engineering and Technology Research, ISSN: 2475-885X, DOI 10.12783/dtetr/icicr2019/30554	Scopus	4	5
7	Ioana Nascu, Ioan Nascu	MBPC Control for Continuous Stirred Tank Reactors, Advances in Technology Innovation(AITI), 2018, ISSN 2415-0436	Scopus	2	10
8	Ioana Nascu	Drug Dosing Control during Anaesthesia in Patients Undergoing Surgery", Automation and Computer Science Students Conference ACSC 2009May 22-23, 2009 Cluj- Napoca	Scopus	1	20
9	Ioan Nascu, Robin De Keyser, Grigore Vlad, Ioana Nascu	Modelling and Control Aspects of Wastewater Treatment Processes, Ecoterra, nr.18, year V, September 2008, Pag.27, ISSN:154- 7071	Scopus	4	5
10	S. M. Cristescu, Ioana Nascu, Ioan Nascu	Sensitivity Analyses of an Activated Sludge Model for a Wastewater Treatment Plant. 17th International Conference on System Theory, Control and Computing (ICSTCC), 14-19 Oct. 2015, Cheile Gradistei, pp: 595 - 600, DOI: 10.1109/ICSTCC.2015.7321358, IEEE Catalog Number: CFP1536P-ART, ISBN: 978-1-4799-8481-7	Scopus	3	6.666666667

5	Eslami, T; Jungbauer, A, Control strategy for biopharmaceutical production by model predictive control, BIOTECHNOLOGY PROGRESS, 2024, 40, 2	6	1.3333333	
6	Gupta, R; Zhang, Q, Data-driven decision-focused surrogate modeling, AICHE JOURNAL, 2024, 70, 4	6	2.67	Q1/Q2
7	Pistikopoulos, EN; Tian, YH, Advanced Modeling and Optimization Strategies for Process Synthesis, ANNUAL REVIEW OF CHEMICAL AND BIOMOLECULAR ENGINEERING, 2024, 15	6	2.67	Q1/Q2
8	Lee, MFR, A Review on Intelligent Control Theory and Applications in Process Optimization and Smart Manufacturing, PROCESSES, 2023, 11, 11	6	2.67	Q1/Q2
9	Pistikopoulos, EN; Akundi, SS; Kenefake, D; Diangelakis, NA, The quest towards the integration of process control, process operations, and process operability -Industrial need or academic curiosity?, COMPUTERS & CHEMICAL ENGINEERING, 2024, 180	6	2.67	Q1/Q2
10	Gupta, S; Saini, RST; Ganesh, HS, Hierarchical MPC for a dynamic process system employing parametric global optimization strategy, DIGITAL CHEMICAL ENGINEERING, 2023, 9	6	2.67	Q1/Q2
11	Pappas, I; Bindlish, R; Ali, M; Pistikopoulos, EN, Optimal Operation of an Industrial Dividing Wall Column through Multiparametric Programming, INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 2023, 62, 37	6	2.67	Q1/Q2
12	Majumdar, A; Haas, M; Elliot, I; Nazari, S, Control and control-oriented modeling of PEM water electrolyzers: A review, INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, 2023, 48, 79	6	2.67	Q1/Q2
13	Ashraf, WM; Dua, V, Artificial intelligence driven smart operation of large industrial complexes supporting the net-zero goal: Coal power plants, DIGITAL CHEMICAL ENGINEERING, 2023, 8	6	2.67	Q1/Q2
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11	Oberdieck, R., N. A. Diangelakis, M. M. Papathanasiou, I. Nascu, M. Sun, S. Avraamidou and E. N. Pistikopoulos	Pop-the parametric optimization toolbox. Computing and Systems Technology Division 2015 - Core Programming Area at the 2015 AIChE Annual Meeting	Scopus	7	2.857142857
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		Total punctaj A2.2.			116.86

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

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	National	Dezvoltarea de strategii de control avansat și optimizare pentru procese din industria farmaceutica prin integrarea conceptelor de digital twin și machine learning, Competitia de proiecte de cercetare a academiei oamenilor de știință din românia AOSR-teams ii ediția 2023-2024, transformarea digitală în științe , 50 000 ron	2023-2025	2	20
2	National	Sistem de control avansat pentru optimizarea functionarii bioreactoarelor cu aerare,Contract de cercetare-dezvoltare-inovare - beneficiar ICPE Bistrita, 50 000 ron (la semnat, nr intrare 20951/06.07.2022)	2022-2023	1	10
3	International	High Fidelity Dynamic Modeling for Real Time State Estimation and Control of a Continuous Manufacturing Process for Pharmaceutical Drug Product, Industrial Parterneship, Eli Lilly and Company - Private,Proposal 1603782, 130,000 USD	2017-2019	2	40
		Total punctaj A2.4.1			**70**

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

Nr.	Tip: nat / internat.	Denumire proiect	Perioada	Nr. Ani	Punctaj
1	National	Digitalizarea protocolului chirurgical bazat pe evenimente pentru identificarea sistemului si control robust in anestezia generala, NR 56TE/2025	2025=2026	2	4
2	National	Sistem avansat de supervizare si control pentru optimizarea functionarii statiilor de epurare ape uzate Proiect experimental - demonstrativ NR. 686PED / 2022	2022-2024	2	4
3	International	OPTICO (Model Based Optimization and Control for Process Intensification in Chemical and Biopharmaceutical Processes) European ProjectSistemelor. Grant agreement ID: 280813	2012-2015	3	12
4	International	ESE (Energy System Engineering) Marie Curie Actions, Grant agreement ID: 294987	2012-2016	4	16
5	International	MOBILE (Modelling, Control and Optimization of Biomedical Systems) ERC Project	2011-2014	3	12
		Total punctaj A2.4.1			**48**

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	1 E. N. Pistikopoulos, N. A. Diangelakis, R. Oberdieck, M. M. Papathanasiou, I. Nascu, and M. Sun, "PAROC - An integrated framework and software platform for the optimisation and advanced model-based control of process systems," Chemical Engineering Science, Article vol. 136, pp. 115-138, 2015, doi: 10.1016/j.ces.2015.02.030.	Reynoso-Donzelli, S; Ricardez-Sandoval, LA, An integrated reinforcement learning framework for simultaneous generation, design, and control of chemical process flowsheets, COMPUTERS & CHEMICAL ENGINEERING, 2025, 194	6	2.67	Q1/Q2
2		Mansouri, SS; Sivaram, A; Savoie, CJ; Gani, R, Models, modeling and model-based systems in the era of computers, machine learning and AI, COMPUTERS & CHEMICAL ENGINEERING, 2025, 194	6	2.67	Q1/Q2
3		Chen, XH; Oko, E; Wu, X, Integration and capacity optimization of molten-salt heat storage in coal-fired power plant with carbon capture system, JOURNAL OF ENERGY STORAGE, 2024, 99	6	2.67	Q1/Q2
4		van de Berg, D; Shah, NL; del Rio-Chanona, EA, Hierarchical planning-scheduling-control - Optimality surrogates and derivative-free optimization, COMPUTERS & CHEMICAL ENGINEERING, 2024, 188	6	2.67	Q1/Q2

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		Total punctaj A3.1.2.		**717.62**

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 International Conference on Systems, Man, and Cybernetics, 2016	Special Sessions Chair, Workshop Women in Engineering	ISI	10
2	IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics	Special Sessions Chair, Modeling and control of chemical processes	ISI	10
3	Journal of Process Control	Reviewer	ISI	10
4	Computers and Chemical Engineering	Reviewer	ISI	10
5	American Institute of Chemical Engineers (AIChE)	Member	ISI	10
6	Institute of Electrical and Electronics Engineers (IEEE)	Member	ISI	10
7	11th IFAC Symposium on Biological and Medical Systems	Plenary Talk - Invited Speaker, Towards Industry 4.0 and Continuous Pharmaceutical Manufacturing, 2021	ISI	10

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