



UNIVERSITATEA TEHNICĂ
DIN CLUJ-NAPOCA

AVIZ INDEPLINIRE STANDARDE MINIMALE

In urma analizei dosarului de concurs depus de candidatul NASCU IOANA
pentru postul **Conferentiar pozitia 23** din Statul de functii al Departamentului de AUTOMATICA.

Comisia de verificare apreciaza ca SUNT indeplinite standardele minimale pentru participarea la
concurs.

Motivatie (*doar in cazul in care nu sunt indeplinite standardele minimale*)

Comisia de verificare

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

Candidat **Ioana Nascu**
Domeniul **Calculatoare si Tehnologia Informatiei; Ingineria Sistemelor**

Nr. Crt	Domeniul activ.	Criteriu	Subcategoriile	Indicatori (kpi)	Numar	Punctaj
1	Activitatea didactica si profesionala (A1)	Cărți de autor sau capitole [1] de specialitate la edituri cu ISBN Material didactic/Lucrări didactice publicate la edituri cu ISBN	A1.1.1. Internationale A1.1.2. Nationale A1.2.1	50/nr autori sau 100/nr. autori cu condiția[2] 50/nr autori 40/nr autori	6 1 1	0.00 71.07 20.00
Total punctaj A(1)						91.07
2	Activitatea de cercetare (A2)	Articole în reviste cotate ISI, și lucrări în volumele unor manifestări științifice indexate ISI Articole în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale recunoscute (BDI)[4] Proprietate intelectuală, brevete de invenție, certificate ORDA Granturi/proiecte de cercetare câștigate prin competiție [6] sau Contracte cu agenți economici, în valoare de minimum 10.000 dolari USA echivalent încasati [6]	A2.1 A2.2 A2.3.1 Internationale [5] A2.3.2 nationale A2.4.1.1 Internationale A2.4.1.2 nationale A2.4.2.1 Internationale A2.4.2.2 nationale	(25+ 30 * factor impact [3]) / nr. de autori 20 / nr. de autori 35 / nr. de autori 25 / nr. de autori 20 * ani de desfasurare 10 * ani de desfasurare 4 * ani de desfasurare 2 * ani de desfasurare	46 13 0 0 1 2 3 1	916.67 85.19 0.00 0.00 40.00 20.00 40.00 4.00
Total punctaj A(2)						1105.86
3	Recunoasterea si impactul activitatii (A3)	Citari [7] in carti, reviste si volume ale unor manifestari stiintifice Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, ISI [9] Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizator de manifestari stiintifice, internationale indexate BDI [4] Premii in domeniu conferite de Academia Română, ASTR, AOSR, sau premii internationale de prestigiu.	A3.1.1 carti, ISI [8] A3.1.2 BDI [4] A3.2 A3.3 A3.4	8 / nr aut art. citat 4 / nr aut art. citat 10 6 15	363 3 7 0 2	1485.45 3.33 70.00 0.00 30.00
Total punctaj A(3)						1588.79

Condiții minime						
Nr.	Domeniul de activitate (A)	Conferentiar	CSII	Profesor	CSI	Realizat
A1	Activitatea didactica / profesionala (A1)	50	Fără restricții	100	Fără restricții	91.07
A2	Activitatea de cercetare (A2)	300	350	600	700	1105.86
A3	Recunoasterea impactului activitatii (A3)	50	50	150	150	1588.79
Total (A)		400	400	850	850	2785.72
Condiții minime obligatorii pe subcategoriile						
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	363.00
	Factor de impact ISI cumulat pentru publicatii [12]	4	4	10	10	66.25
	Nr Minim Reviste ISI in zona Q1/Q2	1	1	3	3	13.00

Candidat **Sef de Lucrari Dr. Ing. Ioana Nascu**

Data **04.06.2023**

Anexa: datele pentru calculul indeplinirii criteriilor

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

Nr.	Autori	Titlu capitol / carte	Editura	Anul	Punctaj
1	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
2	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

3	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
4	A. Krieger, I. Naşcu, N. Panoskaltis, 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
5	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
6	Papathanasiou, M. M., M. Onel, I. Nascu and E. N. Pistikopoulos	Computational tools in the assistance of personalized healthcare. Quantitative Systems Pharmacology. ISBN 978-044639646. DOI 10.1016/b978-0-444-63964-6.00006-4	Elsevier	2018	6.25
7	I. Naşcu, I. Naşcu, R. Crişan, S. Folea	Echipamente şi sisteme de automatizare, ISBN 978-606-737-099-7	UTPRESS	2015	12.50
Total					71.07

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 în reviste cotate şi în volumele unor manifestări ştiinţifice indexate ISI proceedings

Nr.	Autori	Titlu articol	Factor Impact	Nr. Aut	Punctaj
1	Naşcu, I., Dangelakis, 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
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
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
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
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
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
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
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
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
10	Pistikopoulos, E. N., N. A. Dangelakis, 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
11	Oberdieck, R.; Dangelakis, 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
12	Oberdieck, R., N. A. Dangelakis, I. Nascu, M. M. Papathanasiou, M. Sun, S. Avraamidou and E. 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
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
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	28.30
15	Nascu, Ioana, N. A. Dangelakis, Yan-Shu Huang and Zoltan K. Nagy	Multiparametric Model Predictive Control Strategies for a Rotary Tablet Press in Pharmaceutical Industry', 33rd European Symposium on Computer Aided Process Engineering: Computer Aided Chemical Engineering.	0.25	4	8.13

16	Născu, I., Du, W. and Ioan, N	An Auto-tuning method for aeration control in activated sludge wastewater treatment processes', in IEEE 2022 International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2022), Male, 16-18 nov 2022	0.25	3	10.83
17	Ioana Născu, Ioan Născu	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	Născu, 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	Născu Ioana, Ioan Născu, 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	Născu 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	Născu, I., T. Chen, W. Du, and I. Născu	"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	Născu, 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	Născu Ioana; Pistikopoulos E.; Născu 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 Născu, Ioan Născu	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	Născu, 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	Născu, 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	Născu, 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	Născu, 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 Născu, Ioan Născu, 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 Născu, Ioan Născu	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	Născu, 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	Născu, I.; Oberdieck, R.; Pistikopoulos, E. N.	An explicit Hybrid Model Predictive Control Strategy for Intravenous Anaesthesia". 9th IFAC Symposium on Biological and Medical Systems (BMS); 2015., IFACPapersOnLine	0.25	3	10.83
33	Născu, 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	Născu, 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	Născu, 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	Născu, 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	Născu, Ioana, Ionescu CM, Născu 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, IEEEExplore DOI: 10.1109/AQTR.2012.6237683	0.25	3	10.83333333
38	Născu, Ioana, Ionescu CM, Născu I., De Keyser R.	Evaluation of three protocols for automatic DOA regulation using Propofol and Remifentanyl ", 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, IEEEExplore 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. Vasilan	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, IEEEExplore 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 Remifentanyl. IFAC Proceedings Volumes (IFAC-PapersOnline).	1.132	3	19.65333333
Factor impact cumulativ			66.25		
Total punctaj A2.1.			916.67		

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 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
2	Ioana Nascu, Ioan Nascu	MBPC Control for Continuous Stirred Tank Reactors, Advances in Technology Innovation(ATTI), 2018, ISSN 2415-0436	Scopus	2	10
3	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
4	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
5	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	6.66666667
6	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
7	Pistikopoulos, E. N., R. Oberdieck, N. A. Diangelakis, M. M. Papathanasiou and I. Nascu	Paroc-A unified framework towards the optimal design, operational operation and model-based control of process systems. Computing and Systems Technology Division 2015 - Core Programming Area at the 2015 AIChE Annual Meeting.	Scopus	5	4
8	Ionescu, C. M., I. Nascu and R. de Keyser	Robustness tests of a model based predictive control strategy for depth of anaesthesia regulation in a propofol to bispectral index framework. IFMBE Proceedings	Scopus	3	6.66666667
9	Nascu, I., Sebastia-Saez, D, Chen, T. and Du, W	A Combined Computational-Fluid-Dynamics Model and Advanced Control Strategies for Direct Perfusion Bioreactor Systems, AIChE 2020, Virtual AIChE Annual Meeting, Oral presentation 2. Nas, cu, I., N. A. Diangelakis, S. Garcia-Munoz and E. N. Pistikopoulos, Advanced, Material-Aware Model Predictive Control Strategies for Evaporation Processes in the Pharmaceutical Industries, AIChE 2018, Pittsburgh, USA, Oral presentation	Scopus	4	5
10	Nascu, I., R. Oberdieck, and E. N. Pistikopoulos	A Robust Hybrid Model Predictive Control Framework for Hill curve Model Based Systems, AIChE 2016, San Francisco, USA, Oral presentation	Scopus	3	6.66666667
11	Nas, cu, I., R. Oberdieck, and E. N. Pistikopoulos	A framework for State Estimation and Robust Hybrid Multi-Parametric Model Predictive Control in Anaesthesia, AIChE 2015, Salt Lake City, USA, Oral presentation	Scopus	3	6.66666667
12	Nas, cu, I., Romain S. C. Lambert, Efstratios N. Pistikopoulos	A framework for Model Reduction, State Estimation and Multi-Parametric Model Predictive Control in Anaesthesia, AIChE 2014, Atlanta, USA	Scopus	3	6.66666667

Total punctaj A2.2.

85.19

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 farmaceutică prin integrarea conceptelor de digital twin și machine learning, Competiția de proiecte de cercetare a academiei oamenilor de știință din România AOSR-teams II ediția 2023-2024, transformarea digitală în știință, 50 000 ron	2023-2025	2	20
2	National	Sistem de control avansat pentru optimizarea funcționării bioreactorilor 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 Partnership, 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	Sistem avansat de supervizare și control pentru optimizarea funcționării stațiilor de epurare ape uzate Proiect experimental - demonstrativ NR. 686PED / 2022	2022-2024	2	4
2	International	OPTICO (Model Based Optimization and Control for Process Intensification in Chemical and Biopharmaceutical Processes) European Project Sistemelor. Grant agreement ID: 280813	2012-2015	3	12
3	International	ESE (Energy System Engineering) Marie Curie Actions, Grant agreement ID: 294987	2012-2016	4	16
4	International	MOBILE (Modelling, Control and Optimization of Biomedical Systems) ERC Project	2011-2014	3	12

Total punctaj A2.4.1

44

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	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	Farivar, F (Farivar, Faezeh) ; Jolfaei, A (Jolfaei, Alireza) ; Manthouri, M (Manthouri, Mohammad) ; Haghighi, MS (Haghighi, Mohammad Sayed), 'Application of fuzzy learning in IoT-enabled remote healthcare monitoring and control of anesthetic depth during surgery', Information Sciences, Volume 626, Page262-274, DOI10.1016/j.ins.2022.12.094	4	4.00
2		Oshin, Temitope A., 'Exploratory mathematical frameworks and design of control systems for the automation of propofol anesthesia', International Journal of Dynamics and Control Volume 10, Issue 6, Pages 1858 - 1875 December 2022, 10.1007/s40435-022-00953-1	1	16.00
3		Jarrett, R. T., J. L. Blair, and M. S. Shotwell. 2022. 'Optimal BIS reference functions for closed-loop induction of anesthesia with propofol', COMPUTERS IN BIOLOGY AND MEDICINE, 144, DOI10.1016/j.combiomed.2022.105289	3	5.33
4		Poomani, K., S. Sathiyavathi, and M. Gowrishankar, 'Performance Evaluation of ILC Controller for Anesthesia Process', IETE JOURNAL OF RESEARCH, DOI10.1080/03772063.2022.2034533	3	5.33
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7		M. Schiavo, F. Padula, N. Latronico, M. Paltenghi, and A. Visioli, "Individualized PID Tuning for Maintenance of General Anesthesia with Propofol," presented at the IFAC PAPERSONLINE, 2021, DOI10.1016/j.ifacol.2021.08.320	5	1.6
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Total punctaj A3.1.1.				1485.45		

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	Nascu Ioana, Ionescu CM, Nascu I, De Keyser R., "Evaluation of three protocols for automatic DOA regulation using Propofol and Remifentanyl", Proceedings of 9th IEEE International Conference on Control & Automation 2011, Santiago, Chile, 19-21 Dec	Padmanabhan R., Meskin N., Haddad W.M., Direct adaptive disturbance rejection control for sedation and analgesia, 2014 Middle East Conference on Biomedical Engineering (MECBME), Doha	4	1
2	S. M. Cristescu, I. Nascu, and I. Nascu, "Sensitivity Analyses of an Activated Sludge Model for a Wastewater Treatment Plant," presented at the 2015 19TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC), 2015.	N. I. Hodasz, V. I. Bradila, I. Nascu, Z. Lendek, and Ieee, "Modeling and parameter estimation for an activated sludge wastewater treatment process," presented at the PROCEEDING OF 2016 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS (AQTR), 2016.	4	1

3	Predictive Adaptive Control of an Activated Sludge Wastewater Treatment Process I Nascu, I Nascu, G Viad Advances in Technology Innovation 1 (2), 38-40	Parameter estimation of activated sludge process based on an improved cuckoo search algorithm, X Du, J Wang, V Jegatheesan, G Shi - Bioresource technology, 2018 - Elsevier	3	1.3333333
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Total punctaj A3.1.2.

3.33

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 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

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

Nr	Anul acordării premiului	Premiul acordat	Organizația
1	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

Candidat SL Dr. Ing. Nascu Ioana

Data 04.06.2023