FIŞA DE VERIFICARE

a îndeplinirii standardelor minimale necesare și obligatorii pentru conferirea titlului didactic de **PROFESOR UNIVERSITAR**

DOMENIUL - Calculatoare, tehnologia informației și ingineria sistemelor (Comisia 15 CNATDCU)

http://www.cnatdcu-c15.org/Standarde-C15.pdf

Subsemnata, Prof.univ.dr.ing. OPREA Mihaela, conducător de doctorat în domeniul *Ingineria Sistemelor,*
declar pe proprie răspundere că datele prezentate în fișa de verificare de mai jos sunt reale.
Conform acestor date declar că ÎNDEPLINESC
Standardele minimale necesare şi obligatorii (*CU EXCEPȚIA *subcategoriei A2.1 min 3 articole reviste cotate ISI Q1/Q2 – realizat 2 articole Q1)
pentru abilitare (respectiv pentru conferirea titlului didactic de profesor universitar),
aferente Domeniului Calculatoare, tehnologia informaţiei şi ingineria sistemelor,
valabile la data de 08.04.2020.
În ultimii 5 ani am realizat 1276,864 puncte ceea ce reprezinta 150,22% din punctajul minim solicitat (850 puncte)
pentru domeniul Calculatoare, tehnologia informației și ingineria sistemelor

Prof.univ.dr.ing. OPREA Mihaela

1. Studiile de doctorat

Nr. crt.	Instituția organizatoare de doctorat	D o m e n i u l	Perioada	Titlul științific acordat
1.	Universitatea Petrol-Gaze din Ploieşti	Sisteme automate	1992-1996	Doctor inginer

2. Îndeplinirea standardelor minimale

Domeniul	Categorii şi restricții	Subcategorii	Indicator	Punctaj

activităților					i (kpi)	
1	2		3		4	X
Activitatea didactică și profesională (A1)	Cărți de autor sau capitole[1] de specialitate în edituri cu ISBN	Cărți / monografii	A1.1.1	internaționale	50 / nr. de autori sau 100 / nr. de autori cu	
				Oprea M., Mihalache S.F., Carbureanu M., *Knowledge-Based Intelligent Process Control*, chapter in Nakamatsu, K; Kountchev, R. (Editors), New Approaches in Intelligent Control: Techniques, Methodologies and Applications, Book Series: Intelligent Systems, **Springer**, Volume 107, ISBN 978-3-319-32166-0, pages 207-240, **2016**. https://link.springer.com/chapter/10.1007/978-3-319-32168-4_7/fulltext.html	(50/4)/3	**4,167**
				Paraschiv N., **Oprea M.**, Carbureanu M, Olteanu M., *Computational Intelligence Techniques for Chemical Process Control*, chapter in Balas V.E., Koprinkova-Hristova P., Jain L.C. (Editors), Innovations in Intelligent Machines-5: Computational Intelligence in Control Systems Engineering, Book Series: Studies in Computational Intelligence, **Springer**, Volume: 561, ISBN 978-3-662-43369-0, Engineering ISSN 1860-949X, pages: 191-226, 2014. http://link.springer.com/chapter/10.1007/978-3-662-43370-6_7	(50/4)/4	3,125
				Oprea M., *Applications of multi-agent systems*, chapter in Reis, R. (Editor), Information Technology: Selected Tutorials, Book Series: International Federation for Information Processing, **Kluwer Academic Publisher**, **Springer**, Vol. 157, ISBN 1-4020-8158-8, pp. 239-270, 2004. http://link.springer.com/chapter/10.1007/1-4020-8159-6_9	(50/4)/1	12,5
				A1.1.1		**19,792**
			A1.1.2	naționale	50/nr. de autori	
				Oprea M., *Programare logică și Programare funcțională – Teorie și Aplicații*, Editura MatrixRom București, ISBN 978-606-25-0550-9, 170 pagini, **2020**. http://www.matrixrom.ro	50/1	**50**
				Oprea M., Dragomir E.G., Mihalache S.F., Popescu M., *Metode si tehnici de predictie a concentratiei particulelor PM2.5 in mediul urban*, capitolul 11 din cartea: *Metode de evaluare a efectelor poluarii aerului cu particule in suspensie asupra sanatatii copiilor*, Iordache S, Dunea D. (Editori), **Editura MatrixRom**, Bucuresti, ISBN 978-606-25-0121-1, 42/476 pagini, 2014. http://www.matrixrom.ro	(50/4)/4	3,125
				Oprea M., Nichita C., Dunea D., *Aplicatii ale inteligentei artificiale in protectia mediului*, Editura Universitatii Petrol-Gaze din Ploiesti, ISBN 978-973-719-236-3, 127 pagini, 2008. http://editura.upg-ploiesti.ro/index.php?categoryID=51	50/3	16,67
				Oprea M., Tanasescu A., *Tehnici de modelare a cunoasterii in sistemele bazate pe cunostinte*, capitolul XX (pag. 223-242) din cartea *Managementul cunoasterii in universitatea moderna*, Bodea C.-N., Andone I.I (Coordonatori), **Editura ASE, Bucuresti**, ISBN 978-973-594-953-2, 470 pagini,	(50/4)/2	6,25

				2007. http://editura.ase.ro/		
				Oprea M., Tanasescu A., *Rationament bazat pe cazuri – paradigma si model al cunoasterii umane*, capitolul XXV (pag. 285-292) din cartea *Managementul cunoasterii in universitatea moderna*, Bodea C.-N., Andone I.I (Coordonatori), Editura ASE, Bucuresti, ISBN 978-973-594-953-2, 470 pagini, 2007. http://editura.ase.ro/	(50/4)/2	6,25
				Oprea M., Tudor I., *Retele de cunoastere*, capitolul XXXIII (pag. 417-432) din cartea *Managementul cunoasterii in universitatea moderna*, Bodea C.-N., Andone I.I (Coordonatori), Editura ASE, Bucuresti, ISBN 978-973-594-953-2, 470 pagini, 2007. http://editura.ase.ro/	(50/4)/2	6,25
				Oprea M., Tudor I., *Retele de cunoastere pentru cercetare-dezvoltare*, capitolul XXXIV (pag. 433-439) din cartea *Managementul cunoasterii in universitatea moderna*, Bodea C.-N., Andone I.I (Coordonatori), Editura ASE, Bucuresti, ISBN 978-973-594-953-2, 470 pagini, 2007. http://editura.ase.ro/	(50/4)/2	6,25
				Oprea M., *Programare orientata pe obiecte – Exemple in limbajul C++*, Editura MatrixRom, Bucuresti, ISBN 973-685-527-9, 201 pagini, 2003. http://www.matrixrom.ro/romanian/editura/domenii/cuprins.php?cuprins=PO20	50	50
				Oprea M., *Sisteme bazate pe cunostinte – Ghid teoretic si practic*, Editura MatrixRom, Bucuresti, ISBN 973-685-484-1, 127 pagini, 2002. http://www.matrixrom.ro/romanian/editura/domenii/cuprins.php?cuprins=SC70	50	50
				Total (A1.1.2)		**194,795**
	Material didactic / Lucrări didactice publicate în edituri cu ISBN	Manuale didactice	A1.2.1		40/ nr. autori	
				Oprea M., Carbureanu M., *Programare orientata pe obiecte* – indrumar de laborator, Editura Universitatii Petrol-Gaze din Ploiesti, ISBN 978-973-719-728-3, 161 pagini, **2018**.	40/2	**20**
				Oprea M., *Inteligenta artificiala – Elemente teoretice si aplicative*, Editura Universitatii Petrol-Gaze din Ploiesti, ISBN 978-973-719-688-0, 149 pagini, **2017**.	40	**40**
				Oprea M., *Programare orientata pe obiecte – Limbajul C++*, Editura Universitatii Petrol-Gaze din Ploiesti, ISBN 978-973-719-686-6, 173 pagini, **2017**.	40	**40**
				Oprea M, *Recunoasterea formelor – indrumar de laborator*, Editura Universitatii Petrol-Gaze din Ploiesti, ISBN 978-973-719-343-8, 87 pagini, 2010. http://editura.upg-ploiesti.ro/index.php?categoryID=51	40	40

				Oprea M., *Inteligenta artificiala – indrumar de laborator*, Editura Universitatii Petrol-Gaze din Ploiesti, ISBN 978-973-719-320-9, 107 pagini, 2009.	40	40
				Oprea M., *Agenti inteligenti – indrumar de laborator*, Editura Universitatii Petrol-Gaze din Ploiesti, ISBN 978-973-719-290-5, 131 pagini, 2009.	40	40
				Oprea M., Nicoara S., *Inteligenta artificiala*, Editura Universitatii Petrol-Gaze din Ploiesti, ISBN 973-719-073-4, 191 pagini, 2005. http://editura.upg-ploiesti.ro/index.php?productID=104	40/2	20
				Oprea M., *Programare orientata pe obiecte*, Editura Universitatii Petrol-Gaze din Ploiesti, ISBN 973-7965-69-8, 185 pagini, 2004.	40	40
				Oprea M., *Inteligenta artificiala*, vol. I, Editura Universal Cartfil, ISBN 973-95878-7-9, 211 pagini, 1998.	40	40
				Oprea M., *Sisteme expert de gestiune – îndrumar*, Editura Universal Cartfil, Ploiesti, ISBN 973-95878-9-5, 113 pagini, 1998.	40	40
				Total (A1.2.1)		**360**
TOTAL A1						**574,587**
Activitatea de cercetare (A2)	Articole în reviste cotate ISI și lucrări în volumele unor manifestări științifice indexate ISI	A 2.1.			(25+30*IF) /nr. autori	
				Oprea M., A general framework and guidelines for benchmarking computational intelligence algorithms applied to forecasting problems derived from an application domain-oriented survey, *Applied Soft Computing Journal*, Vol. 89, 106103, April **2020**, **FI: 4.873**, **Q1**. https://doi.org/10.1016/j.asoc.2020.106103	(25+30* 4.873)/1	**171,19**
				Oprea M., A knowledge modelling framework for intelligent environmental decision support systems and its application to some environmental problems, *Environmental Modelling & Software*, Vol. 110, Nr. 12, Pag: 72-94, **2018**, **FI: 4.177**, **Q1**, WOS:000451323500007 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C64hwLyPWb7h8CdJ998&page=1&doc=1	(25+30* 4.177)/1	**150,31**
				Oprea M., ABVE-Frame: An agent-based virtual enterprise development framework, *AI Communications*, Vol. 30, Nr. 2, Pag: 117-140, **2017**, **FI: 0,461**, WOS:000401559000002 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=11&SID=C64hwLyPWb7h8CdJ998&page=1&doc=1	(25+30* 0.461)/1	**38,83**
				Oprea M., Dunea D., Liu H.-Y., Development of a knowledge based system for analyzing particulate matter air pollution effects on human health, *Environmental Engineering and*	(25+30* 1.334)/3	**21,67**

			Management Journal, Vol. 16, Nr. 3, Pag: 669-676, **2017**, **FI: 1,334**. WOS:000403508600018 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=C64hwLyPWb7h8CdJ998&page=1&doc=1		
			Oprea M., Mihalache S., Popescu M., Computational intelligence-based PM2.5 air pollution forecasting, *International Journal of Computers Communications & Control (IJCCC)*, Vol. 12, Nr. 3, Pag: 365-380, **2017**, **FI: 1,29**, WOS: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=14&SID=C64hwLyPWb7h8CdJ998&page=1&doc=1	(25+30* 1.29)/3	**21,23**
			Oprea M., Olteanu M., Ianache R., An urban air pollution early warning system based on PM2.5 prediction applied in Ploiesti city, *Revista de Chimie*, Vol. 68, Nr. 4, Pag: 858-863, **2017**, **FI: 1,412**, WOS: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=18&SID=C64hwLyPWb7h8CdJ998&page=1&doc=1	(25+30* 1.412)/3	**22,45**
			Liu H.Y., Dunea D., **Oprea M.**, Savu T., Iordache S., Improving the protection of children against air pollution threats in Romania – The Rokidair project approach and future perspectives, *Revista de Chimie*, Vol. 68, Nr. 4, Pag: 841-846, **2017**, **FI: 1,412**, WOS: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=23&SID=C64hwLyPWb7h8CdJ998&page=1&doc=1	(25+30* 1.412)/5	**13,472**
			Popescu M., Mihalache S., **Oprea M.**, Air pollutants and meteorological parameters influence on PM2.5 forecasting and performance assessment of the developed artificial intelligence-based forecasting model, *Revista de Chimie*, Vol. 68, Nr. 4, Pag: 864-868, **2017**, **FI: 1,412**, WOS: http://apps.webofknowledge.com/Search.do?product=WOS&SID=C64hwLyPWb7h8CdJ998&search_mode=GeneralSearch&prID=a8244d5b-4edb-4c21-90d0-bcdc0ab2d51d	(25+30* 1.412)/3	**22,45**
			Oprea M., Dragomir E.G., Popescu M., Mihalache S.F., Particulate Matter Air Pollutants Forecasting Using Inductive Learning Approach, *Revista de Chimie*, Vol. 67, Nr. 10, Pag: 2075-2081, **2016**, **FI: 1,412**, WOS: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=28&SID=C64hwLyPWb7h8CdJ998&page=1&doc=1	(25+30* 1.412)/4	**16,84**
			Oprea M., Buruiana V., Matei A., A Microcontroller-based Intelligent System for Real-time Flood Alerting, *International Journal of Computers, Communications & Control*, Vol. 5, Nr. 5, Pag: 844-851, 2010, **FI: 1,29**, WOS: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=5&SID=E1Wy9ZYsyUnCrHuXnBU&page=1&doc=1	(25+30* 1.29)/3	**21,23**
			Oprea M., Dunea D., SBC-Mediu: A Multi-expert System for Environmental Diagnosis, *Environmental Engineering and Management Journal*, Vol. 9, Nr. 2, Pag: 205-213, 2010, **FI: 1,334**, WOS: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=9&SID=E1Wy9ZYsyUnCrHuXnBU&page=1&doc=1	(25+30* 1.334)/2	**32,51**

			Oprea M., MAS_UP-UCT: A multi-agent system for university course timetable scheduling, *International Journal of Computers, Communications & Control*, Vol. 2, Nr. 1, Pag: 94-102, 2007, **FI: 1,29**, WOS: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=18&SID=E1Wy9ZYsyUnCrHuXnBU&page=1&doc=1	(25+30* 1.29)/1	**63,7**
			Oprea M., A case study of knowledge modelling in an air pollution control decision support system, *AI Communications*, Vol. 18, Nr. 4, Pag: 293-303, 2005, **FI: 0,461**, WOS: http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=25&SID=E1Wy9ZYsyUnCrHuXnBU&page=1&doc=1	(25+30* 0.461)/1	**38,83**
			Oprea M., Ontology Mapping in Open Multi-Agent Systems, *Studies in Informatics and Control*, Vol. 16, Nr. 2, 2007, **FI: 1,020**, GSC: https://scholar.google.ro/scholar?hl=ro&as_sdt=0%2C5&q=Oprea+M.%2C+Ontology+Mapping+in+Open+Multi-Agent+Systems%2C+2007&btnG=	(25+30* 1.020)/1	**55,6**
			Oprea M., Coordination in an Agent-Based Virtual Enterprise, *Studies in Informatics and Control*, Vol. 12, Nr. 3, Pag: 215-225, 2003, **FI: 1,020**, GSC: https://scholar.google.ro/scholar?hl=ro&as_sdt=0%2C5&q=Oprea+M.%2C+Coordination+in+an+Agent-Based+Virtual+Enterprise%2C+2003&btnG=	(25+30* 1.020)/1	**55,6**
			Oprea M., An Adaptive Negotiation Model for Agent-Based Electronic Commerce and Control, *Studies in Informatics and Control*, Vol. 11, Nr. 3, Pag: 271-279, 2002, **FI: 1,020**, GSC: https://scholar.google.ro/scholar?hl=ro&as_sdt=0%2C5&q=Oprea+M.%2C+An+Adaptive+Negotiation+Model+for+Agent-Based+Electronic+Commerce+and+Control%2C+2002&btnG=	(25+30* 1.020)/1	**55,6**
			Oprea M., Onto-DeclarProg: An educational ontology for declarative programming, *Proceedings of the 14th ICVL 2019*, pag. 37-43, Bucuresti, Oct 25-26, **2019**, ISSN 1844-8933 – ISI Proceedings. http://www.icvl.eu FI: **0.25**	(25+30* 0.25)/1	**32,5**
			Oprea M., On the development of a student evaluation model, *Proceedings of the 14th ICVL 2019*, pag. 44-48, Bucuresti, Oct 25-26, **2019**, ISSN 1844-8933 – ISI Proceedings. FI: **0.25** http://www.icvl.eu	(25+30* 0.25)/1	**32,5**
			Oprea M., A. Ilă, Ș. Neagu, C. Zaman, On the development of educational applications of artificial intelligence, *Proceedings of the 14th ICVL 2019*, pag. 49-55, Bucuresti, Oct 25-26, **2019**, ISSN 1844-8933 – ISI Proceedings. FI: **0.25** http://www.icvl.eu	(25+30* 0.25)/4	**8,125**
			Oprea M., Agent-based modelling of multi-robot systems, *The 8th Int. Conf. on Advanced Concepts in Mechanical Engineering*, IOP Publishing, IOP Conf. Series: Materials Science and Engineering, 444 (**2018**), 052026, doi: 10.1088/1757-899X/444/5/052026, Iasi, Romania. FI: **0.25** WOS:000467443600082 https://www.scopus.com/results/results.uri?numberOfFields=0&src=s&clickedLink=&edit=&editSaveSearch=&origin=searchbasic&authorTab=&affiliationTab=&advancedTab=&scint=1&menu=search&tablin=&searchterm1=Agent-based+modelling+of+multi-robot+systems&field1=TITLE&dateType=Publication_Date_Type&yearFrom=Before+1960&year	(25+30* 0.25)/1	**32,5**

			To=Present&loadDate=7&documenttype=All&accessTypes=All&resetFormLink=&st1=Agent-based+modelling+of+multi-robot+systems&st2=&sot=b&sdt=b&sl=51&s=TITLE%28Agent-based+modelling+of+multi-robot+systems%29&sid=93f989b734a7709063b9a5ebcddef188&searchId=93f989b734a7709063b9a5ebcddef188&txGid=a0d00a369933f4cdf04d114dd602a805&sort=plf-f&originationType=b&rr		
			Oprea M., On the development of an educational ontology for logic programming, Proceedings of ICVL 2017, Sibiu, Romania, **2017**. FI: **0.25** http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=13&SID=D5OjKGNleM36vgt71Xr&page=1&doc=1	(25+30* 0.25)/1	**32,5**
			Oprea M., An overview on the contribution of the academician Octav Onicescu to the informational statistics and further developments, Proceedings of ICVL 2017, Sibiu, Romania, **2017**. FI: **0.25** http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=9&SID=D5OjKGNleM36vgt71Xr&page=1&doc=1	(25+30* 0.25)/1	**32,5**
			Oprea M., M. Popescu, S. Mihalache, E. Dragomir, Data mining and ANFIS application to particulate matter air pollutant prediction. A comparative study, *Proceedings of the Int. Conf. ICAART **2017***, vol. 2, 551-558. FI: **0.25** http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=16&SID=D5OjKGNleM36vgt71Xr&page=1&doc=1	(25+30* 0.25)/4	**8,125**
			Oprea M., Popescu M., Dragomir E., Mihalache S., Models of particulate matter concentration forecasting based on artificial neural networks, *Proceedings of the 9th IEEE Int. Conf. IDAACS*, **2017**. FI: **0.25** http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=19&SID=D5OjKGNleM36vgt71Xr&page=1&doc=1	(25+30* 0.25)/4	**8,125**
			Oprea M., Liu, H.-Y., *A knowledge based approach for PM2.5 air pollution effects analysis*, Proceedings of the International Symposium on INnovations in Intelligent SysTems and Applications (INISTA 2016), Sinaia, Romania, Aug 2-5, **2016**. (factor impact **0,25**) http://apps.webofknowledge.com/Search.do?product=WOS&SID=E6xpMgojNVC2ZUdTOLQ&search_mode=GeneralSearch&prID=3c75e6c0-42bc-4a0c-a952-294ea7af3cc1	(25+30* 0.25)/2	**16,25**
			Oprea M., Popescu M., Mihalache S.F., *Applying Artificial Neural Networks to Short-Term PM2.5 Forecasting Modeling*, Artificial Intelligence Applications and Innovations, 12th IFIP WG 12.5 International Conference and Workshops, AIAI 2016, Proceedings, Volume 475, **Springer**, Thessaloniki, Greece, Sept 16-18, 2016, pp. 204-211, **2016**. (factor impact **0,25**) http://apps.webofknowledge.com/Search.do?product=WOS&SID=E6xpMgojNVC2ZUdTOLQ&search_mode=GeneralSearch&prID=a6469014-c101-46cf-812f-99a885373b8a	(25+30* 0.25)/3	**10,83**
			Oprea M., Popescu M., Mihalache S.F., *A Neural Network Based Model for PM2.5 Air Pollutant Forecasting*, 20th International Conference on System Theory, Control and Computing (ICSTCC 2016), Sinaia, Romania, Oct 13-15, 2016, pp. 776-781, **2016**. (factor impact **0,25**)	(25+30* 0.25)/3	**10,83**

			http://apps.webofknowledge.com/Search.do?product=WOS&SID=E6xpMgojNVC2ZUdTOLQ&search_mode=GeneralSearch&prID=3924a5d2-a15c-4ea5-a03e-c5869922417d		
			Oprea M., Mihalache S.F., Popescu M., *A comparative study of computational intelligence techniques applied to PM2.5 air pollution forecasting*, Proceedings of 2016 6th International Conference on Computers Communications and Control (ICCCC 2016), Oradea, Romania, May 10-14, 2016, pp. 103-108, **2016**. (factor impact **0,25**) http://apps.webofknowledge.com/Search.do?product=WOS&SID=E6xpMgojNVC2ZUdTOLQ&search_mode=GeneralSearch&prID=322730d7-eb59-40c3-acba-5f6e47323495	(25+30* 0.25)/3	**10,83**
			Mihalache S.F., Popescu M., **Oprea M.**, *Particulate Matter 2.5 Air Pollution Forecasting Based On Artificial Intelligence*, Proceedings of SGEM 2016 16th International Multidisciplinary Scientific GeoConference, Book 4 – Energy and Clean Technologies, vol. II - Air Pollution and Climate Change (SGEM 2016), Albena, Bulgaria, June 30 - July 06, **2016**, pp. 491-498, 2016. (factor impact **0,25**) http://apps.webofknowledge.com/Search.do?product=WOS&SID=E6xpMgojNVC2ZUdTOLQ&search_mode=GeneralSearch&prID=cc675009-f116-4bda-8e71-928ea22dbb7c	(25+30* 0.25)/3	**10,83**
			Oprea M., A case study of modeling the object oriented programming knowledge as an educational ontology, *Proceedings of the 11th International Conference on Virtual Learning - ICVL **2016*** – ISI Proceedings. **FI: 0.25** WOS:000444941400003	(25+30* 0.25)/1	**32,5**
			Oprea M., Ianache C., Mihalache S.F., Dragomir E.G., Dunea D., Iordache St., Savu T., *On the development of an intelligent system for particulate matter air pollution monitoring, analysis and forecasting in urban regions*, Proc. of 19th International Conference on System Theory, Control and Computing (ICSTCC 2015), Cheile Gradistei, Romania, Oct 14-16, 2015, pp. 711-716, 2015. (factor impact **0,25**) http://apps.webofknowledge.com/Search.do?product=WOS&SID=E6xpMgojNVC2ZUdTOLQ&search_mode=GeneralSearch&prID=b75b89f1-2ef5-477a-a2ff-d2d32784b543	(25+30* 0.25)/7	**4,64**
			Mihalache S.F., Popescu M., **Oprea M.**, *Particulate matter prediction using ANFIS modelling techniques*, Proc. of 19th International Conference on System Theory, Control and Computing (ICSTCC 2015), Cheile Gradistei, Romania, Oct 14-16, 2015, pp. 895-900, 2015. (factor impact **0,25**) http://apps.webofknowledge.com/Search.do?product=WOS&SID=E6xpMgojNVC2ZUdTOLQ&search_mode=GeneralSearch&prID=0f9ce8a3-580f-44a9-ae48-7749ed365bf4	(25+30* 0.25)/3	**10,83**
			Oprea M., *Methodological guidelines for the development of university course examination ontologies*, Proceedings of the 10th International Conference on Virtual Learning - ICVL 2015, Timisoara, Romania, Oct 31, 2015, pp. 50-53, 2015. (factor impact **0,25**) http://apps.webofknowledge.com/Search.do?product=WOS&SID=E6xpMgojNVC2ZUdTOLQ&search_mode=GeneralSearch&prID=3f4209e2-674e-491a-94cb-5c4fedb00edf	(25+30* 0.25)/1	**32,5**
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			Total (A2.1)		**1610,507**
Activitatea de cercetare (A2)	Articole in reviste, si în volumele unor manifestări științifice indexate in alte baze de date internaționale recunoscute (BDI)	A2.2		20 / nr. autori	
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	Proprietate intelectuală, brevete de invenție, certificate ORDA .		A.2.3.1	Internaționale	35/ nr. autori	
			A.2.3.2	Naționale (OSIM)	25 /nr. autori	
	Granturi / proiecte de cercetare câștigate prin competiție Contracte cu agenți economici, în valoare de minim 10000 USD echivalent încasați	Director /responsabil partener	A2.4.1.1	internaționale	20 * ani desfășurare	
				Proiect european de cercetare SEE: ROKIDAIR - *Towards a better protection of infants against air pollution threats in the urban areas of Romania*, contract de cercetare nr. 20SEE/30.06.2014, MEN-ANCS, 2014-**2017**; Coordonator: Universitatea Valahia din Targoviste, Parteneri: NILU, Norvegia; UPG Ploiesti, Universitatea Politehnica din Bucuresti. – **Responsabil partener UPG** Proiect european de cercetare FP5 - EVP3-2002-00506, *Multi-Pollutant Multi-Effect Assessment of Air Pollution Control Strategies - an integrated approach*, UE, Coordonator: University of Stuttgart, Germania; 2002-2004. – **Responsabil partener UPG**	20 * 3 20 * 2	**60** **40**
			A2.4.1.2.	naționale	10 * ani desfășurare	
				Proiect de cercetare postdoctorala: CEEX nr. 1533/2006, *Studiul aplicarii inteligentei artificiale in protectia mediului*, MEdC-UEFISCSU, 2006-2008, 3 cercetatori postdoctoranzi – **Director de proiect** Proiect de cercetare CEEX (CNMP-INFOSOC) nr. 645/2006, *Strategii, sisteme, metode şi instrumente pentru managementul cunoaşterii în universităţi* (1.08.2006-30.06.2007), Coordonator:	10 * 2 10 * 1	**20** **10**

				ASE Bucuresti – **Director de proiect** Grant de cercetare CNCSIS AT429/2003, *Sistem expert prototip pentru diagnoza poluării atmosferice*, 2003 – **Director de proiect** Grant de cercetare CNCSIS AT18/2002, *Dezvoltarea unui sistem bazat pe cunoştinţe pentru acordarea optima a buclelor de reglare*, 2002 – **Director de proiect** Proiect de cercetare INFOSOC nr. 58/8.08.2002, *Interfaţă inteligentă pentru recunoaşterea caracterelor scrise de mână*, 2002-2003 – **Director de proiect** Grant de cercetare CNCSIS AT221/2001, *Dezvoltarea unui sistem bazat pe cunoştinţe pentru acordarea optimă a buclelor de reglare*, 2001 – **Director de proiect**	10 * 1 10 * 1 10 * 1 10 * 1	**10** **10** **10** **10**
		Membru în echipă	A2.4.2.1.	internaționale	4 * ani desfășurare	
			A2.4.2.2.	naționale	2 * ani desfășurare	
				Proiect de cercetare PN-II, contract nr. 71-006/18.09.2007, *INTELCHIM - Modelare şi conducere automată utilizând instrumente ale inteligenţei artificiale pentru aplicaţii în chimie şi inginerie de proces*, CNMP, Coordonator: Universitatea Tehnică Gh. Asachi din Iaşi, 2010. Proiect de cercetare PN II 143/2007, *Dezvoltarea unui laborator pentru aplicarea tehnologiilor CIM*, ANCS, 2007-2009. Proiect de cercetare CEEX (CNMP-INFOSOC) nr. 645/2006, *Strategii, sisteme, metode şi instrumente pentru managementul cunoaşterii în universităţi* (1.07.2007-1.08.2008), Coordonator: ASE Bucuresti. Grant CNFIS 39691/1999-2002, *Model de software integrat de tip multimedia pentru invatare interactiva generat la Universitatea Petrol-Gaze din Ploiesti*, 1999-2002. Proiect MOSS, contract nr. C020/1994, cod UNESCO 1203/18, *Cercetari si experimentari privind functionarea sistemelor deschise*, 1994. Contract de cercetare nr. 3018/1994, Ministerul Invatamantului, *Sistem informatic pentru managementul Universitatii Ploiesti*, 1992-1994. **Total A2.4.2.2**	2 * 1 2 * 1 2 * 1 2 * 2 2 * 1 2 * 1	**2** **2** **2** **4** **2** **2** **14**

	Total A2.4				**184**
TOTAL A2					**2496,207**
Recunoaștere a și impactul activității (A3)	Citări în cărți, reviste și volume ale unor manifestări științifice	A3.1.1	Cărți, ISI	8/ nr. aut. articol citat	
			1. Lucrare citată: **Oprea M.**, *An Adaptive Negotiation Model for Agent-Based Electronic Commerce*, Studies in Informatics and Control (SIC), Vol. 11, No. 3, pp. 271-279, 2002. http://sic.ici.ro/sic2002_3/art5.pdf **Lucrare care citează**: *Negotiating with bounded rational agents in environments with incomplete information using an automated agent***,** R Lin, S Kraus, J Wilkenfeld, J Barry, *Artificial Intelligence*, vol 172, No. 6-7, pp. 823-851, April 2008 – **Elsevier (ISI)** http://www.sciencedirect.com/science/article/pii/S0004370207001518; doi:10.1016/j.artint.2007.09.007	8 / 1	**8**
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			3. Lucrare citată: Idem **Lucrare care citează**: *Predicting opponent's moves in electronic negotiations using neural networks***,** R Carbonneau, GE Kersten, R Vahidov - *Expert Systems with Applications*, Vol. 34, No. 2, pp. 1266-1273, February 2008, - **Elsevier (ISI)** http://www.sciencedirect.com/science/article/pii/S0957417406004155; doi:10.1016/j.eswa.2006.12.027	8 / 1	**8**
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			16. Lucrare citată: Idem **Lucrare care citează**: **Develop acceleration strategy and estimation mechanism for multi-issue negotiation**, H Rau, CW Chen - *Advances in Applied Artificial Intelligence*, 2006 – Springer (ISI); http://link.springer.com/chapter/10.1007/11779568_129	8 / 1	**8**
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			25. Lucrare citată: Idem **Lucrare care citează**: Studying Retailer Strategies through an Integrated E-Business Model: a Multi-Agent Approach, M Xie, J Chen - *Management Science and Financial Engineering*, 2005 - dbpia.co.kr; http://www.dbpia.co.kr/Journal/ArticleDetail/501619 **http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=164&SID=S1cn4dAkCue52ly1rFe&page=1&doc=1**	8 / 1	**8**
			26. Lucrare citată: Idem **Lucrare care citează**: A new mechanism for negotiations in multi-agent systems based on ARTMAP artificial neural network, R Beheshti, N Mozayani - Agent and Multi-Agent Systems: Technologies and Applications, LNCS, vol. 6682, 2011 – **Springer;** http://link.springer.com/chapter/10.1007/978-3-642-22000-5_33	8 / 1	**8**
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			37. Lucrare citată: Idem **Lucrare care citează**: Buyer agent decision process based on automatic fuzzy rules generation methods R Arapoglou, K Kolomvatsos, Hadjiefthymiades, S - Fuzzy Systems (FUZZ …, 2010 - ieeexplore.ieee.org, Fuzzy Systems (FUZZ), 2010 IEEE International Conference on http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=5584416	8 / 1	**8**

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	Membru în colectivele de redacție sau comitetele științifice ale revistelor indexate ISI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internaționale indexate ISI	A3.2.		10 / fiecare revistă/manifestare	
			Revista internationala indexata ISI: *AiCommunications*, **Guest editor** (2005). http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=123&SID=S1cn4dAkCue52ly1rFe&page=1&doc=1		**10**
			Revista internationala indexata ISI: *Environmental Engineering and Management Journal (EEMJ)*, **Guest editor** (2010); Proc. of AIAEP 2009. http://omicron.ch.tuiasi.ro/EEMJ/issues/vol9/vol9no2.htm		**10**
			Total (A3.2)		**20**
	Membru în colectivele de	A3.3.			

	redacție sau comitetele științifice ale revistelor indexate BDI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice indexate BDI		**Editor asociat** din 2008 la Revista internationala (indexata BDI): *International Journal of Artificial Intelligence (IJAI)*. http://ceser.in/ceserp/index.php/ijai/pages/view/eb-ijai		**6**
			Revista indexata BDI: *Buletinul UPG Ploiesti, seria matematica-informatica-fizica (BMIF)*, **membru colectiv de redactie** (2007-2010). http://bmif.unde.ro/?p=board		**6**
			Membru comitet stiintific international IFIP International Conference on Artificial Intelligence Applications and Innovations (AIAI), **2016**, Greece. https://conferences.cwa.gr/aiai2016/index.html		**6**
			Membru comitet stiintific international EANN **2016**, https://conferences.cwa.gr/aiai2016/index.html		**6**
			Membru comitet stiintific international EANN **2015**, http://delab.csd.auth.gr/eann2015/		**6**
			Membru comitet stiintific international BCI **2015**, http://software.ucv.ro/BCI2015/		**6**
			Membru comitet stiintific international CCIA'2014, Barcelona, Spain http://www.maia.ub.es/~ccia2014/en/index.php?id=comites		**6**
			Membru comitet stiintific international IFIP International Conference on Artificial Intelligence Applications and Innovations (AIAI), 2014, Greece. http://delab.csd.auth.gr/aiai2014/program_committee.php		**6**
			Membru comitet stiintific international IFIP AIAI 2013, Paphos, Cyprus, 2013 http://aiai2013.cut.ac.cy/program-comitee/		**6**
			Membru comitet stiintific international IFIP AIAI, Halkidiki, Greece, 2012 http://delab.csd.auth.gr/aiai2012/program%20committee.php		**6**
			Membru comitet stiintific international EANN 2013, Halkidiki, Greece http://delab.csd.auth.gr/eann2013/program%20committee.php		**6**
			Membru comitet stiintific international ICANN 2010, Thessaloniki, Greece http://delab.csd.auth.gr/icann2010/organization.html		**6**
			Membru comitet stiintific international IDC 2010, Tangier, Marroco http://www.ieee.ma/~idc2010/committees.html		**6**
			Membru comitet stiintific international IDC 2012, Calabria, Italy http://idc2012.deis.unical.it/committees.html		**6**
			Membru comitet stiintific international IDC 2007, Craiova, Romania http://software.ucv.ro/~cbadica/idc2007/committees.html		**6**
			Membru comitet stiintific international WASA 2014, Thessaloniki, Greece http://perun.pmf.uns.ac.rs/events/wasa2014/committes.html		**6**
			Membru comitet stiintific international BCI **2019**, Sofia, Bulgaria http://bci2019.cceng.eu		**6**
			Membru comitet stiintific international IDC **2019**, St. Petersburg, Russia http://www.idc2019.ru		**6**

			Membru comitet stiintific international INISTA **2019**, Sofia, Bulgaria http://www.inista.org		**6**
			Membru comitet stiintific international EANN **2018**, Bristol, UK http://www.eann2018.org		**6**
			Membru comitet stiintific international IDC **2017**, Belgrad, Serbia http://idc2017.pmf.uns.ac.rs/		**6**
			Membru comitet stiintific international INISTA **2017**, Gdynia, Poland http://inista.org/inista17/		**6**
			Membru comitet stiintific international ICCC **2017**, Sinaia, Romania http://ace.ucv.ro/iccc2017/		**6**
			Membru comitet stiintific international EANN **2017**, Athens, Greece https://conferences.cwa.gr/eann2017/		**6**
			Membru comitet stiintific international ICVL 2007-2014 http://www.c3.icvl.eu/2014/committees		**6**
			Membru comitet si Organizator workshop international BESAI 2004, Valencia, Spania (August 2004) – ECAI 2004		**6**
			Membru comitet si Organizator workshop international BESAI 2006, Riva del Garda, Italia (August 2006) – ECAI 2006		**6**
			Membru comitet si Organizator de workshop international AIAEP 2009, Thessaloniki, Grecia (Aprilie 23-25, 2009) - IFIP AIAI 2009		**6**
			Membru comitet si Organizator de workshop international ISQL 2012, Halkidiki, Grecia (Sept 27-30, 2012) – IFIP AIAI 2012		**6**
			Membru comitet si Organizator de workshop international WOKB **2015**, Craiova, Romania (Sept 2015) – BCI 2015		
			Total (A3.3)		**180**
	Premii în domeniu conferite de Academia Română, ASTR, AOSR sau premii internaționale de prestigiu	A3.4.		15/ premiu	
			Academia Romana, ASTR, academii de ramura, premii internationale Academii de ramura – Premiul Academiei Oamenilor de Stiinta din Romania „Ioan Ursu” pentru monografia *Metode de evaluare a efectelor polurii aerului cu particule in suspensie asupra sanatatii copiilor*, Editura Matrix Rom 2014, premiat in **Sept 2016**		**15**
TOTAL A3					**975**

Formula de calcul a indicatorului de merit (A = A1+A2+A3) $A=\sum_i K_{1i}+\sum_i K_{2i}+\sum_i K_{3i}$, undek $_{pi}$– Indice specific tipului si categoriei de activitate

[1]Capitolul de carte editată trebuie să NU fie într-un volum de conferință (cu ISBN) și se punctează cu 1/4 din punctajul pentru cartea din categoria respectivă

.[2]Dacă cartea respectivă se regăsește în cel puțin 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 conferințelor internaționale de top în domeniul de abilitare se consideră factorul de impact echivalent 0.75 (lista acestora agreată și ținută la zi de comisia CNATDCU nr.15 fiind disponibilă la adresa www.cnatdcu-c15.org);

[4] Pentru domeniul Calculatoare, Tehnologia Informației și Ingineria Sistemelor sunt recunoscute următoarele baze de date internaționale (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 atașa documente care să demonstreze caracterul de cercetare al proiectului

[7] Se exclud autocitările (auto-citarea se referă la situația în care numele candidatului apare simultan atât printre numele autorilor referinței bibliografice în cauză cât și 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 notația ISI).

[9] Nu se considera calitatea de recenzor al unor articole individuale

Condiții minimale

Nr.crt.	Domeniul de activitate	Punctaj impus	Punctaj realizat	Criteriu îndeplinit (DA/NU)
A1	Activitate didactică / profesională (A1)	100	574,587	DA
A2	Activitatea de cercetare (A2)	600	2496,207	DA
A3	Recunoașterea impactului activității (A3)	150	975	DA
	TOTAL (A)	850	4045,794	DA

Condiții minimale obligatorii pe subcategorii

Criteriu / condiție pe subcategorii		Impus	Realizat	Îndeplinit
A1.1.1 – A1.1.2	**Cărți de specialitate**	**1 carte**	**5**	DA
A2.1	**Articole în reviste cotate ISI și în volumele unor manifestări științifice indexate ISI proceedings**	**15 din care minim 3 în reviste cotate ISI Q1/ Q2**	**53** **din care 2 în reviste cotate ISI Q1**	DA NU
A2.4.1.	**Granturi / proiecte de cercetare câștigate prin competiție (Director / Responsabil partener)**	**2**	**8**	DA
A3.1.1	**Număr de citări în cărți, reviste cotate ISI și volume ale unor manifestări științifice ISI (WOS)**	**25**	**75**	DA
	Factor de impact ISI cumulat pentru publicații	**10**	**24,445**	DA

Prof.univ.dr.ing. OPREA Mihaela

Semnătura