

FIȘA DE VERIFICARE

a îndeplinirii standardelor minime naționale pentru postul de profesor universitar

Domeniul: Ingineria Sistemelor, nr. 29, Comisia 15 CNATDCU

Activitatea didactică și profesională (A1)

Indi-cato-rul	Denumire a indicato-rului	Punc-tajul	Elementul pentru care se acordă punctajul
A1.1.1	Carti/ Monografii si capitole de carti de specialitate in edituri recunoscute internatio-nale	25	1. Marius M. Bălaș , Valentina E. Bălaș – <i>Postmodernism and Control Engineering</i> , Rudolf Seising (editor): Views on Fuzzy Sets and Systems from Different Perspective. Philosophy, Logic; Criticism and Applications, Vol. 243, ISBN 978-3-540-93801-9, Cap 18, pag. 377-390, 2009 , DPLB (Computer Science Bibliography) indexed, http://www.springerlink.com/content/n2jvt13463n5pj37/
		25	2. Marius M. Bălaș , Valentina E. Bălaș – <i>The Fuzzy Interpolative Control for Passive Greenhouses</i> , H.N. Teodorescu, J. Watada, and L.C. Jain (eds.): Intelligent Systems and Technologies, SCI 217, Vol. 217, ISBN 978-3-642-01884-8, pag. 219–231, 2009 , Springer, DPLB (Computer Science Bibliography) indexed, http://www.springer.com/engineering/book/978-3-642-01884-8
		16,66	3. M.M. Balas , C. Musca and S. Musca. <i>The Passive Greenhouses</i> , Chapter 5 in <i>Paths to Sustainable Energy</i> , edited by J. Nathwani and A. Ng, InTech Open, 2010 , pp. 75-92. http://www.intech-open.com/books/paths-to-sustainable-energy/the-passive-greenhouses . ISBN 978-953-307-401-6.
		25	4. Valentina E. Bălaș, Marius M. Bălaș , <i>Fuzzy Systems towards Field Applications</i> , Rudolf Seising, Enric Trillas, Claudio Moraga, and Settimo Termini (eds.), <i>On Fuzziness. A Homage to Lotfi A. Zadeh</i> , Springer Verlag, Berlin, New York, 2013 , Volume 216, Chapter 25, pag. 189-195, http://link.springer.com/book/10.1007/978-3-642-35641-4/page/1 , http://link.springer.com/chapter/10.1007/978-3-642-35641-4_3#page-1
		50	5. M.M. Balas . <i>A New Generation of Biomedical Equipment Based on FPGA. Arguments and Facts</i> . Chapter in <i>Advanced Intelligent Computational Technologies and Decision Support Systems. Studies in Computational Intelligence</i> , edited by B. Iantovics and R. Kountchev, Springer, 2014 , Volume 486, pp. 123-134. Print ISBN 978-3-319-00466-2, Online ISBN 978-3-319-00467-9.



	Total carti inter-nationale	141,66	
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A1.1.2	Carti/Mono grafii și capitole de cărți de specialitate în edituri recunoscute naționale	40	1. M.M. Bălaș, Introducere în electronica. Circuite electronice liniare. Editura Universității “Aurel Vlaicu” din Arad, 203 pagini. 2013. ISBN 978-973-752-673-1.
		20	2. Valentina E. Bălaș, Marius M. Bălaș. A Survey on the Constant Time to Collision Techniques, Lotfi A. Zadeh, Dan Tufiş, Florin Gheorghe Filip, Ioan Dzitac (eds.), From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence, Editing House of Romanian Academy, 2008 , pag. 23-31. ISBN:978-973-27-1678-6.
		20	3. Marius M. Bălaș, Valentina E. Bălaș. World Knowledge for Controllers by Fuzzy-Interpolative Systems, Lotfi A. Zadeh, Dan Tufiş, Florin Gheorghe Filip, Ioan Dzitac (eds.), From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence, Editing House of Romanian Academy, 2008 , pag.11-21. ISBN:978-973-27-1678-6,
		40	4. M.M. Bălaș. Regulateore fuzzy-interpolative. Editura Politehnica Timișoara, 2002 , 110 pagini. ISBN 973-625-036-9. 5. M.M. Bălaș editor al volumului Proceedings of International Symposium <i>Research and Education in Innovation Era</i> ISREIE 2012, Engineering Process and technology, Electrical, Arad, November 2012, ISBN ISBN 978-973-752-652-6, Ed. Univ. „Aurel Vlaicu” din Arad, 200 pagini.
	Total carti nationale	120	

A1.2.1	Lucrări didactice	20	1. Marius M. Bălaș, Valentina E. Bălaș, Curs de dispozitive electronice, Editura Universității “Aurel Vlaicu” Arad, 2003 , 126 pagini. ISBN 973-9361-83-8.
		20	2. Marius M. Bălaș, Valentina E. Bălaș, Dispozitive și circuite electronice, Îndrumător de laborator, Editura Universității “Aurel Vlaicu” Arad, 2000 , 55 pagini. ISBN 973-9361-38-2.
		40	3. Marius M. Bălaș, Circuite electronice, Editura Universității “Aurel Vlaicu” Arad, 2013 , 203 pagini. ISBN: 978-973752-673-1
	Total didactic	80	

	TOTAL A1	341,66 100	
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A2.1a	Articole în reviste cotate ISI și în volumele	36,275	1. Valentina E. Bălaș, Marius M. Bălaș. Constant Time to Collision Platons, Int. J. of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844, Vol. III (2008), Suppl. issue: Proceedings of ICCCC 2008, pp. 33-39, 15-17 Mai 2008 Oradea, Romania, CNCIS cat. A, ISI indexed (impact
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unor manifestări științifice indexate ISI	36,275	factor: 1,585) Q3 http://www.journal.univagora.ro/?page=supp_issue2008 , http://www.journal.univagora.ro/download/icccc08.pdf .
	18,523	2. Marius M. Bălaș , Valentina E. Bălaș. <i>World Knowledge for Control Application by Fuzzy-Interpolative Systems</i> , Int. J. of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844, Vol. III (2008), Suppl. issue: Proceedings of ICCCC 2008, pp. 28-32, 15-17 Mai 2008 , Oradea, Romania, CNCSIS cat. A, ISI indexed (impact factor: 1,585) Q3 http://www.journal.univagora.ro/?page=supp_issue2008
	63,58	3. M. Balas , J. Duplaix, M. Bouchouicha, S.V. Balas. <i>Structural modeling of the wind's influence over the heat flow of the greenhouses</i> . Published in <i>Journal of Intelligent and Fuzzy Systems</i> , John Wiley & Sons, Special Issue: <i>Soft Computing and Applications</i> , Volume 19, Number 1, 2008 , pp. 29-40. ISSN 1064-1246. ISI indexed (impact factor: 1,637) Q3
	25,60	4. M.M. Balas . <i>Seven Passive Greenhouse Synergies</i> . Acta Politehnica Hungarica, Budapest, Vol. 11, No. 4, 2014 , pp. 199-210. ISSN: 1785-8860. ISI indexed (impact factor: 1,286), Q3
	29,763	5. Chakraborty Sayan; Dey Nilanjan; Samanta Sourav; Ashour Amira; Barna C.; Balas Marius, Optimization of Non-rigid Demons Registration Using Cuckoo Search Algorithm. COGNITIVE COMPUTATION Volume: 9 Issue: 6 Pages: 817-826 Published: DEC 2017, ISI indexed (impact factor: 4,287), Q1
	7,948	6. Venkataraman Yegnanarayanan, Gayathri Yegnanarayanan, Marius M. Balas. <i>On Coloring Catalan Number Distance Graphs and Interference Graphs</i> . Symmetry. Vol. 19, issue 10, pp. 468-470, 2018 . ISSN: 2073-8994. ISI indexed (impact factor: 2,143) Q2
	10,62	7. Umar Farooq, Jason Gu, Mohamed El-Hawary, Valentina E. Balas, Marius M. Balas , Ghulam Abbas, Muhammad Usman Asad, Jun Luo. <i>State convergence-based control of a multi-master-single-slave non-linear teleoperation system</i> . Acta Polytechnica Hungarica, Vol. 15, Issue 4, pp. 7-26. 2018 . ISSN: 1785-8860. ISI indexed (impact factor: 1,286), Q3
	11,80	8. Abbas, Ghulam, Nazeer, Muhammad Qumar, Balas, Valentina E., Lin, Tsung-Chih, Balas, Marius M. , Asad, Muhammad Usman, Raza, Ali, Shehzad, Muhammad Naeem, Farooq, Umar, Gu, Jason, <i>Derivative-Free Direct Search Optimization Method for Enhancing Performance of Analytical Design Approach-Based Digital Controller for Switching Regulator</i> , ENERGIES, Volume: 12, Issue: 11, Article Number: 2183, DOI: 10.3390/en12112183, Published: JUN 1 2019 , ISI indexed (impact factor: 2,707), Q3
	10,60	9. Ashraf, Naveed, Izhar, Tahir, Abbas, Ghulam, Balas, Valentina E., Balas, Marius M. , Lin, Tsung-Chih, Asad, Muhammad Usman, Farooq, Umar, Gu, Jason, <i>A Single-Phase Buck and Boost AC-to-AC Converter with Bipolar Voltage Gain: Analysis, Design, and Implementation</i> , ENERGIES, Volume: 12, Issue: 7, Article Number: 1376, DOI: 10.3390/en12071376, Published: April 1, 2019 , ISI indexed (impact factor: 2,707), Q3
		10. Farooq, Umar; Gu, Jason; Balas, Valentina E.; Abbas, Ghulam; Asad, Muhammad Usman; Balas, Marius M. , <i>A Hybrid Time Series Forecasting Model for Disturbance Storm Time Index using a Competitive Brain</i>



		9,74 10,60 10,17	<i>Emotional Neural Network and Neo-Fuzzy Neurons</i>, ACTA POLYTECHNICA HUNGARICA, Volume: 16, Issue: 4, Pages: 213-229, 2019, ISI indexed (impact factor: 1,286), Q3 11. Abbas, Ghulam; Gu, Jason; Farooq, Umar; Abid, Muhammad Irfan ; Raza, Ali; Asad, Muhammad Usman; Balas, Valentina E.; Balas, Marius E., <i>Optimized Digital Controllers for Switching-Mode DC-DC Step-Down Converter</i>, ELECTRONICS, Volume: 7, Issue: 12, Article Number: 412, DEC 2018, . ISI indexed (impact factor: 1,764), Q2 in 2018. 12. Farooq, Umar; Asad, Muhammad Usman; Gu, Jason; Abbas, Ghulam; Balas, Valentina E; Balas, Marius M., <i>Design of a Single-Master/Multi-Slave Nonlinear Teleoperation System through State Convergence with Time Varying Delays</i>, ACTA POLYTECHNICA HUNGARICA, Volume: 15, Issue: 8, Pages: 55-82, 2018, ISI indexed (impact factor: 1,286), Q3 13. Umair Tahir, Ghulam Abbas, Dan Ovidiu Glavan, Valentina E Balas, Umar Farooq, Marius M Balas, Ali Raza, Muhammad Usman Asad, Jason Gu, <i>Design of Three Phase Solid State Transformer Deployed within Multi-Stage Power Switching Converters</i>, Applied Sciences, Vol. 9, Nr. 17, Pagini 3545, 2019, ISI indexed (impact factor: 2,217), Q2
	Reviste ISI	281,50	Factor de impact: 25.776

A2.1b	Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI Pro-ceedings	8,125 16,25 10,83 10,83	1. R. E. Precup, S. Preitl, Marius M. Bălaș, Valentina E. Bălaș, <i>Fuzzy Controllers for Tire Slip Control in Anti-lock Braking Systems</i>. Proceedings of the 2004 IEEE International Conference on Fuzzy Systems, FUZZ-IEEE ,04, Budapest, 25-29 July 2004, Volume 3, pag. 1317 – 1322, Indexed by INIST-CNRS, Cote INIST: Y 38577(1), 35400013866828.2270, Indexed by IEE INSPEC IEEE CNF, INSPEC Accession Number: 8254425, IEEE Catalog Number 04CH37542, ISBN 0-7803-8353-2, ISSN 1098-7584, INSPEC Indexed, IEEE Xplore, (ARC Cat. A). (Factor impact: 0,25) 2. Marius M. Bălaș, Valentina E. Bălaș, <i>Modeling Passive Greenhouses. The Sun's Influence</i>, INES 2008, 12th IEEE International Conference on Intelligent Engineering Systems, February 25-29, Miami, Florida, USA, pp.71-75, IEEE Catalog Number: CFP08IES-CDR, ISBN: 978-1-4244-2083-4, Library of Congress: 2008900450, INSPEC Indexed, IEEE Xplore, ISI Proceedings. (Factor impact: 0,25) 3. Marius M. Bălaș, Valentina E. Bălaș, J. Duplaix, <i>Optimizing the Distance-Gap between Cars by Constant Time to Collision Planning</i>. 2007 IEEE International Symposium on Industrial Electronics, June 4-7, 2007, Vigo, Spain, pag. 109 Abstract Book, CD Proceedings, pag. 304-309, IEEE Catalog Nr.r: 07TH8928C, ISBN: 1-4244-0755-9 Library of Congress: 2006935487, INSPEC Indexed, IEEE Xplore, ISI Proceedings. (Factor impact: 0,25) 4. Marius M. Bălaș, V.E. Bălaș, C. Barna, <i>The Constant Effort Imposed Distance Braking for Urban Railway Vehicles</i>. EUROCON 2005 – The International Conference “Computer as a Tool”, Belgrade, Serbia and Montenegro, November 21-24, 2005, IEEE Catalog Number: 05EX1255C. ISBN: 1-
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		16,25 4244-0050-3, pag. 365-368, Indexed by IEE INSPEC IEEE CNF, INSPEC Indexed, IEEE Xplore. (Factor impact: 0,25) 5. Valentina E. Bălaș, Marius M. Bălaș, <i>Traffic Management by Constant Time to Collision</i>, Ignac Lovrek, Robert J. Howlett and Lakhmi C. Jain (eds.), Book: <i>Knowledge-Based Intelligent Information and Engineering Systems</i>, 12th International Conference, KES 2008, Zagreb, Croatia, September 3-5, 2008, Proceedings, Part III, LNCS 5179/2008, pag. 658–663, 2008, © Springer-Verlag Berlin Heidelberg 2008, ISBN 978-3-540-85566-8, http://www.springerlink.com/content/54066776m5814356/, DPLB (Computer Science Bibliography) indexed, ACM, SCOPUS indexed, (ARC Cat. B). 16,25 6. Marius M. Bălaș, Valentina E. Bălaș, <i>Adaptive Rule-Based Reasoning by Qualitative Analysis</i>, 13 International Conference on Information Processing and Management of Uncertainty, IPMU 2010, Dortmund, Germany, June 28- July 2, Proceedings, Part I, Communications in Computer and Information Science, 2010, Volume 80, Part 3, Part 11, pag. 553-560, E. Hullermeier, R. Kruse, F. Hoffman (Eds.), Springer-Verlag, Berlin –Heidelberg 2010, ISSN 1865-0929, ISBN-10 3-642-14054-8 Springer Berlin Heidelberg NewYork, (Factor impact: 0,25) http://www.springerlink.com/content/u50w1n1652815147/, (ARC Cat. C) 16,25 7. Marius M. Balas, Valentina E. Balas, <i>A Sustainable Alimentation System for Our Future: The Passive Greenhouse</i>, Proceedings of the European Computing Conference (ECC '09) and the 3rd International Conference on Computational Intelligence (ci'09), Session: Computation Intelligence Application, Tbilisi, Georgia, June 26-28, 2009, pag. 86-90, ISSN 1790-5117, ISBN 978-960-474-088-8. (Factor impact: 0,25) 10,83 8. M.M. Balas, V.E. Balas, N. E. Mastorakis, <i>The Fuzzy-Interpolative Adaptive Controllers</i>, Recent Advances in Fuzzy Systems, Proceedings of the 10th WSEAS International Conference on Fuzzy Systems (FS '09), Prague, Czech Republic, March 23-25, 2009, pag.18-21, ISBN: 978-960-474-066-6, ISSN: 1790-5109. (Factor impact: 0,25) 16,25 9. Marius M. Bălaș, Valentina E. Bălaș, <i>Monoscopic CCD Cameras as Distance Sensors</i>, Editors: Calin Enachescu, Petru Maior University, Tg. Mures, Romania ; Barna L. Iantovics, Petru Maior University, Romania ; Gheorghe F. Florin, Romanian Academy, Bucharest, Romania, BICS 2008: Proceedings of the 1st International Conference Bio-Inspired Computational Methods Used for Solving Difficult Problems--Development of Intelligent and Complex Systems, American Institute of Physics, Conference Proceedings Volume 1117, 2009, ISBN: 978-0-7354-0654-4, pp. 67-73, http://proceedings.aip.org/dbt/dbt.jsp?KEY=APCPCS&Volume=1117&Issue=1, ISI Proceedings. (Factor impact: 0,25) 16,25 10. Valentina E. Bălaș, Marius M. Bălaș, <i>On the Switching Control</i>, Editors: Calin Enachescu, Petru Maior University, Tg. Mures, Romania; Barna L. Iantovics, Petru Maior University, Romania ; Gheorghe F. Florin, Romanian Academy, Bucharest, Romania, BICS 2008: Proceedings of the 1st Internati-
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			onal Conference Bio-Inspired Computational Methods Used for Solving Difficult Problems--Development of Intelligent and Complex Systems, American Institute of Physics, Conference Proceedings Volume 1117, 2009, ISBN: 978-0-7354-0654-4, pp. 81-88, http://proceedings.aip.org/dbt/dbt.jsp?KEY=APCPCS&Volume=1117&Issue=1, ISI Proc.. (Factor impact: 0,25)
		10,83	11. Valentina E. Bălaș, Marius M. Bălaș, Mircea V. Putin-Racoviță, <i>Passive Greenhouses and Ecological Reconstruction</i>, INES 2008, 12th IEEE International Conference on Intelligent Engineering Systems, Feb. 25-29, 2008, Miami, Florida, USA, pp.77-81, IEEE Catalog Number: CFP08IES-CDR, ISBN: 978-1-4244-2083-4, Library of Congress: 2008900450, INSPEC Indexed, IEEE Xplore, ISI Proceedings. (Factor impact: 0,25)
		16,25	12. Marius M. Bălaș, Valentina E. Bălaș, <i>Some Observations on Stability of Switching Adaptive Rule Based of Fuzzy Self-Adapted Interpolative Controllers</i>. ISCIII'07 3rd International Symposium on Computational Intelligence and Intelligent Informatics, Proceedings, March 28-30, 2007, Agadir, Morocco, pag. 63-66, IEEE Catalog Number: 07EX1756, ISBN: 1-4244-1157-2, INSPEC Indexed, IEEE Xplore, ISI Proceedings. (Factor impact: 0,25)
		16,25	13. Valentina E. Bălaș, Marius M. Bălaș, <i>Switching Adaptive Correctors for Fuzzy Fusion Self-Adapted Interpolative Controllers</i>. ISCIII'07 3rd International Symposium on Computational Intelligence and Intelligent Informatics, Proceedings, March 28-30, 2007, Agadir, Morocco, pag. 67-72, IEEE Catalog Number: 07EX1756, ISBN: 1-4244-1157-2, INSPEC Indexed, IEEE Xplore, ISI Proceedings. (Factor impact: 0,25)
		16,25	14. Marius M. Bălaș, Valentina E. Bălaș, <i>A Simple Model of the Air Conditioning Installation of a Compartmented Railway Coach</i>, ICCC 2007, Proceedings, 5th IEEE International Conference on Computational Cybernetics, Gammart, Tunisia, October 19-21, 2007, pp. 271-274, IEEE Catalog Number: 07EX1750C, ISBN: 1-4244-1146-7, Library of Congress: 2007922966, INSPEC Indexed, ISI Indexed. (Factor impact: 0,25)
		16,25	15. Marius M. Bălaș, Valentina E. Bălaș, <i>World Knowledge for Control Applications</i>. INES 2007 Proceedings, 29 June-1 July, 2007, Budapest, Hungary, 11th International Conference on Intelligent Engineering Systems, pag. 225-228, IEEE Catalog Number: 07EX1751, ISBN: 1-4244-1147-5, Library of Congress: 2007922965, INSPEC Indexed, IEEE Xplore, ISI Proceedings. (Factor impact: 0,25)
		10,83	16. Marius M. Bălaș, Valentina E. Bălaș, J. Duplaix, <i>On the Switching Controllers' Issue</i>, 2nd IEEE International Workshop on Soft Computing Applications, 21-23 August 2007, Gyula-Hungary, Oradea-Romania, pp. 103-108, IEEE Catalog Number: CFP0728D, ISBN 978-1-4244-1607-3, Library of Congress: 2007905895, Digital Object Identifier 10.1109/SOFA. 2007.4318313, Indexed by IEE INSPEC IEEE CNF, INSPEC Indexed, IEEE Xplore, ISI Proceedings, (ARC Cat. C). (Factor impact: 0,25)
		16,25	17. Marius M. Bălaș, Mircea Ciugudean, <i>CMOS-Integrated Temperature Relay Based on Widlar Mirror</i>. Chapter in <i>Proceedings of the 5th International Workshop on Soft Computing Applications SOFA'12</i>, Szeged, Hungary, Aug. 22-24. Series: <i>Advances in Intelligent and Soft Computing</i>, edited by



		10,83	V.E. Balas, J. Fodor, A. Varkonyi-Koczy, J. Dombi and L.C. Jain, <i>Springer</i> , 2013 , pp. 319-330. ISBN 978-3-642-33941-7. ISI indexed (impact factor: 0,25)
		8,125	18. M.M. Balas , M. Socaci, O. Olaru. <i>A FPGA Floating Point Interpolator</i> . Chapter in <i>Proceedings of the 5th International Workshop on Soft Computing Applications SOFA'12</i> , Szeged, Hungary, August 22-24. Series: <i>Advances in Intelligent and Soft Computing</i> , edited by V.E. Balas, J. Fodor, A. Varkonyi-Koczy, J. Dombi and L.C. Jain, <i>Springer</i> , 2013 , pp. 331-336. ISBN 978-3-642-33941-7. ISI indexed (impact factor: 0,25)
		10,83	19. M.M. Balas , N.A. Chira, S.A. Matisan and F.M. Suci. <i>Using License Plates Recognition for Automate Cruise Control</i> . Chapter in <i>Proc. of the 5th International Workshop on Soft Computing Applications SOFA'12</i> , Szeged, Hungary, August 22-24. Series: <i>Advances in Intelligent and Soft Computing</i> , edited by V.E. Balas, J. Fodor, A. Varkonyi-Koczy, J. Dombi and L.C. Jain, <i>Springer</i> , 2013 , pp. 605-609. ISBN 978-3-642-33941-7. ISI indexed (impact factor: 0,25)
		16,25	20. Marius M. Balas, Martin Buchholz, Sanda Balas. <i>Expert Control for the Coupled Tanks Greenhouse</i> . In: Balas V., Jain L., Kovačević B. (eds.) <i>Soft Computing Applications. Advances in Intelligent Systems and Computing</i> , Springer Cham, 2016, vol. 357, pp. 939-947. https://doi.org/10.1007/978-3-319-18416-6_74 . ISI indexed (impact factor: 0,25)
		16,25	21. Marius M. Balas, Robert A. Boran. <i>Basic Expert System</i> . International Workshop Soft Computing Applications SOFA 24-26 Aug. 2016. In: Balas V., Jain L., Balas M. (eds.) <i>Advances in Intelligent Systems and Computing book series</i> (AISC, volume 633), Springer Cham, 2018, vol. 1, pp. 10-17. ISSN 2194-5357. https://doi.org/10.1007/978-3-319-62521-8_2 . ISI indexed (impact factor: 0,25)
		10,83	22. Marius M. Balas, Adelin Sofrag. <i>Multi Framing HDR for MRI Brain Images</i> . International Workshop Soft Computing Applications SOFA 24-26 Aug. 2016. In: Balas V., Jain L., Balas M. (eds.) <i>Advances in Intelligent Systems and Computing book series</i> (AISC, volume 633), Springer Cham, 2018, vol. 1, pp. 290-297. ISSN 2194-5357. https://doi.org/10.1007/978-3-319-62521-8_23 . ISI indexed (impact factor: 0,25)
		10,83	23. Marius M. Balas, Emanuela V. Muller, Ramona Lile. <i>Fuzzy-Expert System for Investments in Winemaking</i> . International Workshop Soft Computing Applications SOFA 24-26 Aug. 2016. In: Balas V., Jain L., Balas M. (eds.) <i>Advances in Intelligent Systems and Computing book series</i> (AISC, volume 634), Springer Cham, 2018, vol. 2, pp. 278-285. ISSN 2194-5357. https://doi.org/10.1007/978-3-319-62524-9_22 . ISI indexed (impact factor: 0,25)
	ISI Proc.	314,14	Factor de impact ISI Proceedings: 5,75

	TOTAL ISI	595.64	Factor de impact ISI = 25,776 + 5,75 = 31,526
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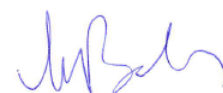
A2.2	Articole in reviste si	10	1. Valentina E. Bălaș, Marius M. Bălaș , <i>Observing Control Systems by Phase Trajectories of the Error</i> . WSEAS Transactions on Systems, Issue 7,
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volumele unor manifestari stiintifice indexate in alte baze de date	5	Volume 5, July 2006 , ISSN 1109-2777, pag. 1717-1722, http://www.worldses.org/journals/systems/systems-july2006.doc , SCOPUS Indexed .
	6,65	2. Marius M. Bălaș , Valentina E. Bălaș, S. V. Muscă, C. Muscă, <i>Ecological Reconstruction Using Energetic Passive Greenhouses</i> . RSEE, 6th International Conference on Renewable Sources and Environmental Electro-Technologies, 8 - 10 June 2006 , Oradea , Romania, <i>Computer Science And Control Systems Session</i> pag. 7-10, Analele Universitatii din Oradea/ Fascicula ELECTROTEHNICA, Sectiunea: Stiinta Calculatoarelor si Sisteme de Control, ISSN 1841-7213, BDI .
	6,65	3. Marius M. Bălaș , M. Ciugudean, Valentina E. Bălaș, <i>Adaptive Fuzzy Interpolative Controllers and Applications</i> . Revista de Inventica, Nr. 48, Vol IX, An XV, 2005 , Romanian Journal for Creativity in Engineering and Technology – Research and Education Reports, Special Issue, Guest Editors: Horia-Nicolai Teodorescu, Seizaburo Arita, Zvetlana Cojocaru, Romanian Inventors Society, Iasi, ISSN 1210-3084, pag. 13-23, <i>Revista CNCSIS categ. D.</i> , http://www.inventica.org.ro/revista/reviste/r48/Abstract%2048.pdf
	6,65	4. Marius M. Bălaș , Valentina E. Bălaș, T. L., Dragomir, <i>A preamble on the identification of the operating regimes of the controllers by the help of the phase trajectory</i> . Electronic BUFEFAL ISSN 0296-3698. Busefal #87, LAMII / CESALP – Universite de Savoie, Annecy, France, Iunie 2002 Format electronic. http://www.listic.univ-savoie.fr/modules.php?name=Busefal&func=AfficherVolume&no_volume=87
	6,65	15. Marius M. Bălaș , Valentina E. Bălaș, C. Alexandrescu, <i>Some Remarks on the Fuzzy - PID Controllers</i> . Buletinul Științific al Universității "Politehnica " din Timișoara, Proceedings of the Symposium on Electronics and Telecommunications "Etc.'98", Vol II, Timișoara, sept. 17-18 1998 , pag. 277-282, ISSN 1224-6034, <i>Revista CNCSIS categ. B+</i> .
	5	16. M. Balas , V. Balas, L. Foulloy, S. Galichet. <i>A model of the sliding Wheel During Braking</i> . BOGIE 2001: <i>The 5-th International Conference on Railway Bogies and Running Gears</i> , Budapest University of Technology and Economics, Department of Railway Vehicles, Sept. 2001 , Budapest, Hungary, SCOPUS indexed .
	10	17. V. Bălaș, M. Bălaș . <i>The Real-Time Evaluation of the Adhesion by Internal Model</i> . The 8th Mini Conference on Vehicle System Dynamics, Identification and Anomalies, 11-13 November, 2002 , Budapest, Hungary, ISBN 963 420 8177, pag. 247-254, SCOPUS indexed .
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	3,33	19. M. Balas , V. Balas, C. Barna, J. Duplaix, Gh. Gherman, R. E. Precup. <i>The Real Time Estimation of the Weariness of the Wheels' Tread for Railway Vehicles</i> . Proceedings of the 6th International Conference on Railway Bogies and Running Gears, Budapest, Hungary, 13-16 sept. 2004 , edited by



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		10	20. M. Bălaș, V. Bălaș. <i>The Family of Fuzzy Self Adaptive Interpolative Controllers.</i> International Conference on Information Processing and Management of Uncertainty in Knowledge-based Systems, IPMU2004, Special Session „Control”, July 4 – 9, 2004 , Perugia, Italy, Vol. III, pp. 2119-2124, (ARC Cat. C), Google Scholar .
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		10	23. M.M. Balas, V.E. Balas. <i>Another Possible Way towards the Intelligent Nano-Systems: the Fuzzy-Interpolative.</i> The 11th IPMU International Conf., July 2-7, 2006 , Paris, France, pp. 2135-2141, Editions EDK, Paris, 2006, ISBN: 2-84254-112-X, (ARC Cat. C)
		10	24. V.E. Balas, M.M. Balas. <i>Driver Assisting by Inverse Time to Collision.</i> WAC 2006, July 24-27, 2006 , Budapest, Hungary, Indexed by IEE INSPEC IEEE CNF, IEEE Catalog Number: 06EX1486, ISBN 1-889335, INSPEC Indexed
		10	25. V.E. Balas, M.M. Balas. <i>Assisting the Drivers by Means of the Constant Time to Collision Criterion,</i> 12th Internacional Conference IPMU 08, Information Processing and Management of Uncertainty in Knowledge-Based Systems, June 22-27, 2008 , Malaga, Spain, pp. 946-951, L. Magdalena, M. Ojeda-Aciego, J.L. Verdegay (eds), ISBN: 978-84-612-3061-7, Dep. Legal: MA-500-2008, (ARC Cat. C)
		10	26. M.M. Balas, V.E. Balas. <i>Smart Control for Passive Greenhouses,</i> 12th Internacional Conference IPMU 08, Information Processing and Management of Uncertainty in Knowledge-Based Systems, June 22-27, 2008, Malaga, Spain, pp. 826-831, L. Magdalena, M. Ojeda-Aciego, J.L. Verdegay (eds), ISBN: 978-84-612-3061-7, Dep. Legal: MA-500-2008, (ARC Cat. C)
		10	27. V.E. Balas, Marius M. Balas, <i>The traffic Control by Constant Time to Collision Platoons,</i> 11th Mini Conference on Vehicle System Dynamics, Identification and Anomalies, VSDIA, 11-12 November 2008 , Budapest University of Technology and Economics, Hungary, pag. 559-566, ISBN 978 963 313 011 7, BDI
		10	28. M.M. Balas, V.E. Balas, <i>The Switching Controllers' Effect and its Rejection in the Case of the Airplanes,</i> 11th Mini Conference on Vehicle System



			Dynamics, Identification and Anomalies, VSDIA, 11-12 November 2008, Budapest University of Technology and Economics, Hungary, pag. 559-566, ISBN 978 963 313 011 7, BDI 29. Marius M. Balas, Jelena Nikolic, Ramona Lile, Mihaela Popa, Roxana Beiu. <i>Integrated Rooftop Greenhouses and Green Skyline Cities</i>. International Multidisciplinary Scientific GeoConference: SGEM: Surveying Geology & mining Ecology Management. Sofia. Vol. 18, issue 6.4, 2018, pp. 435-443. DOI: 10.5593/sgem 2018V/6.4/ S09. 055. BDI 30. Valentina E. Bălaș. Marius M. Bălaș. <i>Considerații asupra modelelor interne</i>. Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science. Aurel Vlaicu University of Arad. Vol. 1, issue 1, 11 Martie 2015, pp. 19-34. BDI 31. Marius Bălaș. <i>Switching Control by Phase Trajectory</i>. Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science. Aurel Vlaicu University of Arad. Vol. 2, issue 1, 24 Feb. 2015, pp. 81-93. BDI 32. Marius Bălaș, Jean Duplaix. <i>Switching Control by Phase Trajectory</i>. Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science. Aurel Vlaicu University of Arad. Vol. 4, issue 1, 24 Feb. 2015, pp. 7-18. BDI 33. M. Bălaș. V. Bălaș. <i>Applying the Constant Time To Collision Criterion In Swarm Systems</i>. Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science. Aurel Vlaicu University of Arad. Vol. 5, issue 4, 25 Feb. 2015, pp. 15-26. BDI 34. Valentina E. Bălaș. Marius M. Bălaș. <i>Switching Control by Phase Trajectory</i>. Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science. Aurel Vlaicu University of Arad. Vol. 5, issue 4, 25 Feb. 2015, pp. 81-93. BDI 35. Dana Balas-Timar, Valentina E Balas, Marius M Balas, Vijay Rao. <i>Fuzzy Scoring of Behavioral Interviews Based on Storytelling Approach</i>. The 6th World Conference on Soft Computing-WConSC, 2016. BDI 36. Vinod Madan, Marius Balas, Enrico Staderini. <i>Novel original digital signal processing techniques of nuclear spectra: a review</i>. Information Technology and Computational Physics. Special Issue, 2016. BDI 37. Rakesh Kumar Sidharthan, Ramkumar Kannan, Seshadhri Srinivasan, Marius Mircea Balas. <i>A Novel Keep Zero as Zero Polar Correlation Technique for Mobile Robot Localization using LIDAR</i>. Advances in Electrical and Computer Engineering. Vol. 16, issue 4, 1 Ian. 2016, pp. 15-22. ISSN: 1582-7445. BDI
	Total BDI	231	

A2.3.1	Proprietate intelectuală brevete de invenție, certificate ORDA	11,7	1. A. Barz, M. Bălaș, G. Dumitrescu. <i>Echipament electric de alimentare la tensiunea de 220V/50Hz a iluminatului fluorescent din vagoanele de călători, de la bateria de acumulatori</i>. Brevet OSIM nr. 91984. Internațional: AC power supply for special railway wagon with pulse
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	internationale	11,7	generator and thyristors which supply transformer with output filter. Patent number RO101695-A. 2. M. Bălaș , A. Aromăneșei, C. Pleșu. <i>Invertor pt. iluminatul fluorescent al vag. de călători, cu stabilizarea iluminării.</i> Brevet OSIM nr. 105756. Internațional: <i>Inverter for fluorescent lamp in railway car has oscillating circuit whose pulses are amplified by transistor and transmitted to lamp via pulse transformer.</i> Patent Number: RO105756-B1.
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A2.3.2	Proprietate intelectuală brevete de invenție, certificate ORDA naționale	5	1. I. Puie, I. Rubinstein, M. Bălaș , V. Crișan, L. Botaș. <i>Dispozitiv de supraveghere selectivă a rețelelor trifazate cu nul izolat.</i> Brevet OSIM nr. 91329.
		5	2. M. Bălaș , C. Nicolescu, I. Rubinstein, A. Barz, G. Dumitrescu. <i>Dispozitiv de optimizare a funcționării iluminatului în vagoane de călători.</i> Brevet OSIM nr. 97546.
		6,25	3. I. Puie, M. Bălaș , A. Barz, G. Dumitrescu. <i>Echipament de alimentare de la linia de înaltă tensiune a trenului.</i> Brevet OSIM nr. 98962.
		12,5	4. I. Puie, M. Bălaș . <i>Metodă directă de măsură și control în timp real a gradului de tasare a amestecurilor de formare.</i> Brevet OSIM nr. 100838.
		6,25	5. D. Piscoi, M. Bălaș , C. Nicolescu, I. Copaci. <i>Metodă de măsurare a vitezei vagonului izbitor în cazul probelor de tamponare.</i> Brevet OSIM nr. 101267.
	TOTAL BREVETE	58,4	Factor de impact brevete invenții: 3,5

A2.4.1 .1	Proiecte castigate prin competiție Director/Responsabil Internationale		Nu
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A2.4.1 .2	Granturi/proiecte castigate prin competiție Director/Responsabil Naționale	10 x 2 ani	1. <i>Dispozitiv de menținere a succe siunii fazelor în rețele trifazate.</i> Cod: 1.4.0728. Șef de temă. Executant: C.C.S.I.T. Vagoane Arad. Beneficiar: I. Vagoane Arad. Valorificare: export Irak.
		10 x 2 ani	2. <i>Dispozitiv de optimizare a funcționării iluminatului în vag. de călători.</i> Cod:1. 6. 0901. Șef de temă. Executant: C.C.S.I.T.V. A. Beneficiar: I.V.A. Valorificare: omologare.
		10 x 2 ani	3. <i>Dispozitiv de diagnosticare automată.</i> Cod:1.6.0900. Șef de temă. Executant: Executant: C.C.S.I.T.V.A. Beneficiar: I.V.A. Valorificare: omologare.
		10 x 3 ani	4. <i>Invertor pentru iluminatul fluorescent de 20W de la 110V_{cc}.</i> Cod:1.6. 1096. Șef de temă. Executant: C.C.S.I.T.V.A. Beneficiar: I.V.A. Valorificare: export Sry-Lanka.
		10 x 1 an	5. <i>Dispozitiv de blocare a ușilor de acces în vagoane de călători.</i> Cod: 1.0.1292. Șef de temă. Executant: C.C.S.I.T.V.A. Beneficiar: Minist. Învăț. și Științei. Valorificare: omologare.
		10 x 1 an	6. <i>Instalație de radioficare și sonorizare pentru vagoane RIC.</i> Cod: 1.0.1293. Șef de temă. Executant: C.C.S.I.T.V.A. Beneficiar: M.Î.Ș. Valorificare: omologare.



		10 x 1 an	7. Sistem automat de blocare a ușilor în vagoanele de călători. Cod: 1.0.1468. Șef de temă. Executant: I.C.P.V.A. Vagoane Arad. Beneficiar: M.Î.Ș. Valorificare: omologare.
		10 x 1 an	8. Noi componente ale ale instalației de iluminat din vagoanele de călători. Cod: 1.2.1471. Șef de temă. Executant: I.C.P. Vagoane Arad. Beneficiar: M.Î.Ș. Valorificare: omologare.
		10 x 1 an	9. Grant CNCIS tip PREC ISI "Premierea rezultatelor în cercetare " PN-II-RU-PRECISI-2008, martie 2008 , Șef de proiect, 2000 RON, poziția 167.
		10 x 1 an	10. Promovarea agriculturii in mediul urban: modele matematice si solutii concrete, Contract de cercetare stiintifica cu agenti economici, Nr. 10/16.07.2019, valoare 42.500 lei, director de proiect.
		10 x 1 an	11. Subprogram 1.1 - ResurseUmane - Proiecte de mobilitate pentru cercetatori cu experienta din diaspora, Competitia 2019, PN-III-P1-1.1-MCD-2019-0139, Responsabil proiect.
		160	

A2.4.2 .1	Granturi/ proiecte castigate prin compe- titie Membru in echipa Internatio- nale	12	1. Program Internațional <i>Proiecte de Cooperare Bilaterală/ Multilaterală, Programul: Capacități /Modul III, Cooperare Bilaterală între România și Bulgaria</i> . Titlu: " <i>Electronic Health Records for the Next Generation Medical Decision Support in Romanian and Bulgarian National Healthcare Systems</i> ", Acronim: NextGenElectroMedSupport, Instituția conducătoare în țară este Universitatea Petru Maior din Târgu Mureș, universitatea conducătoare din Bulgaria este Universitatea Tehnică din Sofia. Directori de proiect: Bulgaria - Prof. dr. Roumen Kountchev Technical University from Sofia, Bulgaria, Romania - director general - Barna Iantovics, Membru/cercetător în echipă: Marius M. Bălaș , august 2010-august 2012.
		12	2. Program Internațional, <i>Planul Național pentru Cercetare Dezvoltare și Inovare 2007-2013-PN II, Capacități /Modul III, Proiecte de Cooperare Bilaterală/Multilaterală, Cooperare Bilaterală între România și Slovacia</i> . Titlu: " <i>Hybrid Medical Complex Systems</i> ", Acronim: ComplexMediSys CO: Universitatea Petru Maior din Targu Mureș. CO: Academia Slovaca de Științe, Bratislava. Directori. Ladislav Hluchý (Slovacia) si Barna Iantovics (Romania). Membru /cercetător în echipă: Marius M. Bălaș , ianuarie 2011-ianuarie 2013.
		24	

A2.4.2 .2	Granturi/ proiecte castigate prin compe- titie. Membru in echipa. Nationale	2 x 2 ani	1. Program de cercetare național. <i>Invertor static de 1,5KVA/ 220V/ 50Hz</i> . Membru în echipa de cercetare. Executant: C.C.S.I.T.V.A. Beneficiar: I. Vagoane Arad. Valorificare: instalare pe vagoane speciale.
		2 x 2 ani	2. Program de cercetare național. <i>Dispozitiv de semnalizare a punerii la masă în rețele trifazate cu nul izolat</i> . Membru în echipă. Executant: I.C.P.V.A. Beneficiar: I.V. Arad. Valorificare: export Brazilia, Bangladesh și aplicat de M.Ap.N.
		2 x 1 an	3. Program de cercetare național. <i>Echipament de alimentare de la linia de înaltă tensiune a trenului</i> . Membru în echipă. Executant: I.C.P.V.A. Beneficiar: I.V. Arad. Omologat.
		2 x 1 an	4. Studiu asupra unei metode de măsurare a vitezei de amestecare a lichidelor (amestecător cu jet imersat). Cod: 6/25.06. 2002. Colectiv. Beneficiar: Mopeka Timișoara. Executant: Universitatea „Aurel Vlaicu” din Arad, Membru în echipă.
		2 x 1 an	5. Contract: Automatizări electro-pneumatice. Cod: 511/ 08.05. 2000 . Beneficiar: PLASTOR SA Oradea. Membru în echipă. 3 participanți. Valoare: 2.000.000 ROL.
		2 x 1 an	6. Contract: Studiu asupra modernizării echipamentului de comandă al strungurilor. Cod: 352/7.02. 2002 . Beneficiar: SC Industrial Tehnologic Robac Service SRL Lipova. Membru în echipă. Valoare: 770 EURO.
		2 x 1 an	7. Proiect obtinut prin competiție: Organizarea Școlii de Vară – „Soft Computing” – ediția a II-a, cu participare internațională, în limba engleză. Iulie 2003 . Universitatea „Aurel Vlaicu” din Arad. Membru în echipă – Consiliul Județean Arad, Centrul Cultural. Valoare: 20.000.000 ROL.



		2 x 1 an	8. Grant CNC SIS „Cercetări pentru implementarea strategiilor bazate pe logica fuzzy și rețele neuronale destinate detecției și diagnosticării defec-telor, cu aplicație la sistemele de conducere a acțiunilor electrice”. Iulie 2004. Executant principal: Universitatea „Politehnica” Timișoara. Membru în echipă.
		2 x 1 an	9. Proiect obținut prin competiție: <i>Organizarea Școlii de Vară – „Soft Computing” – ediția a III-a, cu participare internațională, în limba engleză.</i> August 2004. Universitatea „Aurel Vlaicu” din Arad. Membru în echipă – Consiliul Județean Arad, Centrul Cultural. Valoare: 25.000.000 ROL.
		2 x 1 an	10. Contract de cercetare cu SC CONTACT PLUS SRL Arad. „Cercetari pri-vind dezvoltarea unor noi metode de fuzionare a cunostințelor si aplicatii”. Mai 2005. Universitatea „Aurel Vlaicu” din Arad. Membru în echipă.
		2 x 1 an	11. Proiect obținut prin competiție: <i>Organizarea Școlii de Vară – „Soft Computing” – ediția a IV-a, cu participare internațională, în limba engleză.</i> Iulie 2005. Universitatea „Aurel Vlaicu” din Arad. Membru în echipă – Con-siliul Județean Arad, Centrul Cultural. Valoare: 80.000.000 ROL.
		2 x 1 an	12. Proiect obținut prin competiție: <i>Organizarea Școlii de Vară – „Soft Computing” – ediția a V-a, cu participare internațională, în limba engleză.</i> Iulie 2006. Universitatea „Aurel Vlaicu” din Arad, Membru în echipă – Con-siliul Județean Arad, Centrul Cultural. Valoare: 30.000.000 ROL.
		2 x 1 an	13. Contract de cercetare: <i>Dotare laborator automatizări cu Echipament Mitsubishi PLC</i> , septembrie 2007, Universitatea „Aurel Vlaicu” din Arad, Membru în echipă, 1600 EURO.
		2 x 1 an	14. Contract de cercetare Nr. 05/12.12.2007 cu SC Ovidiu Nicola SRL „Cercetări privind realizarea unui senzor pentru ploaie”, Universitatea „Au-rel Vlaicu” din Arad, Membru în echipă, 1.000 RON
		2 x 1 an	15. Contract de cercetare 2008 cu SC Ready SRL „Inteligența Artificială în aplicații”, Univ. „Aurel Vlaicu” din Arad, Membru în echipă, 1.000 RON
		2 x 1 an	16. Grant PN – II WE Cod CNC SIS: 47, Contract de cofinanțare cu Autori-tatea Națională pentru Cerc. Științifică Nr. 316 / 09.04.2008, Workshop Exploratoriu „ De la limbaj natural la soft computing: noi paradigme ale inteligenței artificiale”, Responsabil Institutul de Cercetari pentru Inteli-genta Artificială al Academiei Romane – Acad. Dan Ioan Tufiș, 30.000 RON.
		2 x 5 ani	17. Noi nano-arhitecturi de inspirație biologică de tip celular pentru cir-cuite integrate – Nanoart-Biocell. (<i>BioCell-Nano ART=Novel Bio-inspired Cellular Nano-architectures</i> , POC-A1-A1.1.4-E no. 30/2016). Șef de pro-gram: Prof. V. Beiu. 2016-2020.
		2 x 1 an	18. Participant la Contractul de cercetare știintifica obținut prin competitie nr. 9542/22.12.2017, cu SC Contact Plus SRL AradModelarea, simularea, experimentarea si validarea unor noi metode avansate de soft computing in domeniul controlului cladirilor inteligente”, Director de proiect – Valentina E. Balas, Valoare 40.000 lei (10.000 \$).
		48	

	TOTAL A2	1117,04 600	
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	Factor de impact ISI: 35,026 10		$25,776 + 5,75 + 3,5 = 35,026$
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A3.1.1	Citari in carti, reviste si volume ale unor manifestari stiintifice Carti ISI		33 citări – 108,67 puncte
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A3.1.2	Citari in carti, reviste si volume ale unor manifestari stiintifice BDI		14 citări - 19,63 puncte
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A3.2.1	Prezentări invitate în plenul unor manifestări științifice internaționale și Profesor invitat	10	1. Profesor invitat M.M. Balas : Universitatea de Sud Toulon-Var, Franța, 2004 .
		10	2. Conferință invitată M.M. Balas . <i>La famille des régulateurs adaptatifs flous-interpolatifs</i> . Université du Sud Toulon-Var, France, February 2004 .
		10	3. Profesor invitat M.M. Balas : Universitatea de Sud Toulon-Var, Franța, 2004 .
		10	4. Conferință invitată M.M. Balas . <i>Les serres passives</i> . Université du Sud Toulon-Var, Franța, September, 2006 .
		10	5. Conferință invitată M.M. Balas . <i>Le flou-interpolatif, présent et perspectives</i> . LIS, Saint-Jerome, Marseille, 21 septembre 2006, http://www.lsis.org/spip.php?id_rubrique=130
		10	6. Conferință invitată, “ <i>The Educational Aspects of the Fuzzy-Interpolative Systems</i> ” Valentina E. Bălaș și Marius M. Bălaș la 7th International Conference on Global Research and Education, Inter-academia, 15-18 September, 2008 , Pecs, Hungary, http://www.trivent.hu/IA2008/Program.html .
		10	7. Conferință invitată, “ <i>Passive Greenhouses</i> ”- Marius M. Bălaș la Pimec – Terra Viva, June 2-4, 2009 , Barcelona, Spain.
		10	8. Conferință invitată, “ <i>The Fuzzy-Interpolative Adaptive Controllers</i> ” Marius M. Bălaș în Recent Advances in Fuzzy Systems, Proceedings of the 10th WSEAS International Conference on Fuzzy Systems (FS '09), Praga, Cehia, March 23-25, 2009 , Plenary Lecture 2, pag.10, ISBN: 978-960-474-066-6, ISSN: 1790-5109, Publisher WSEAS (World Scientific and Engineering Academy and Society) Stevens Point, Wisconsin, USA, http://www.wseas.us/e-library/conferences/2009/prague/FUZZY/FUZZY00.pdf .
		10	9. Conferință invitată, “ <i>Highway traffic management by constant time to collision cruise control</i> ” – Marius M. Bălaș la Universitatea Szechenyi Istvan din Gyor, 23 martie 2009 , Gyor, Ungaria.
		10	10. Conferință invitată, “ <i>A Sustainable Agricultural System: The Passive Greenhouse</i> ” - Marius M. Bălaș la National Kaohsiung University of Applied Sciences, Kaohsiung, Taiwan, 09.11. 2010 .
		10	11. Conferință invitată “ <i>New achievements of the greenhouse industry</i> ”. M.M. Balas . Fuzzy Engineering and Intelligent Transportation FEIT'11, Xi'An, China, December, 2011 .
		10	



		10	12.M.M. Balas <i>Some innovations viewed through a system engineering perspective</i> . International Conference on Global Innovations in Technology, Saintgits College, Kottayam, Kerala, India, April 2013 .
		10	13. M.M. Balas. <i>The Fuzzy-Interpolative Methodology and Applications</i> . Conference on Mathematical Foundation of Informatics, Nov. 9-11, 2017, Chişinău, Republica Moldova.
		10	14. M.M. Balas. <i>The Type-2 Fuzzy-Interpolative Systems</i> . Berkeley University, California, USA, Symposium of Fuzzy Logic and Fuzzy Sets: A Tribute to Lotfi Zadeh, 5 February 2018 .
		10	15. M.M. Balas. <i>Fuzzy Control Applications</i> . The 7th World Conference on Soft Computing, 29-31 May, 2018 , Baku, Azerbaijan.
		10	16. M.M. Balas. <i>Qualitative Phase Trajectory Analysis and Applications</i> . Lovely Univerity, Jalandar, India, August 2018, ICCS 2018, Feynman100, 4th International Conference on Computing Sciences30-31 August 2018 .
		10	17. M.M. Balas. <i>The Fuzzy-Interpolative Methodology. Qualitative Phase Trajectory Analysis and Applications</i> . Feng Chia University, Taichung, Taiwan, April 2019.
		10	18. M.M. Balas. <i>Passive Greenhouses. New Developments and Technologies</i> . Feng Chia University, Taichung, Taiwan, April 2019.
			19. M.M. Balas. <i>The Passive Greenhouses. New Developments and Technologies</i> . ICCSRE'19, July 2019, Agadir, Morocco.
		190	

A3.2.2	Prezentări invitate în plenul unor manifestări științifice naționale și Profesor invitat	5	1. Conferință invitată, " <i>Constant Time to Collision Platoons</i> " – V.E. Bălaș și Marius M. Bălaș la ICCC 2008, International Conference on Computers, Communications and Control, Felix Spa Romania, May 15-17 2008 , text publicat în I. Dzitac, F.G. Filip, M.-J. Manolescu (eds.), Proceedings of ICCCC 2008, in IJCCC, Vol.III (2008), suppl. issue, pp. 33-39, indexata ISI .
		5	2. Conferință invitată, " <i>World Knowledge for Control Applications by Fuzzy-Interpolative Systems</i> " – Marius M. Bălaș și V.E. Bălaș la ICCC 2008, International Conference on Computers, Communications and Control, Felix Spa Romania, May 15-17 2008 , text publicat în I. Dzitac, F.G. Filip, M.-J. Manolescu (eds), Proceedings of ICCCC 2008, in IJCCC, Vol. III (2008), suppl. issue, pp. 28-32, indexata ISI .
		5	3. Conferință invitată, " <i>A Sustainable Feeding System for our Future: the Passive Greenhouse</i> " – M.M. Bălaș la, 11 th WSEAS International Conference on Sustainability in Science Engineering (SSE '09), Timișoara, România, May 27-29, 2009 , pag. 15, http://www.wseas.us/conferences/2009/timisoara/sse/Plenary5.htm .
		5	4. Conferință invitată, Marius Bălaș , " <i>Arguments and Facts for a FPGA New Generation of Equipment</i> ", Conferința Diaspora în Cercetarea Științifică și Învățământul Superior din Romania, București, 26-28 Sept. 2012 .
		5	5. Conferință invitată, Marius Bălaș , <i>Serele pasive</i> . ENREG Energia Regenerabilă 2010, martie, Arad.
		5	6. Conf. invitată, Marius Bălaș , <i>Noi realizări în domeniul sereilor. Sere închise și pasive</i> . ENREG 2014 Energia Regenerabilă 2014, 10 martie, Arad.



		5	7. Conferință invitată, Marius Bălaș și Vasile Topac (Univ. Aurel Vlaicu din Arad). <i>Case și sere pasive</i> . ENREG 2015 Energia Regenerabilă 2015, 5 martie, Arad http://www.enreg-expo.com/274.html?&L=1
		35	

A3.3. 1	Membru în colectivele de redacție sau comitete științifice ale revistelor, organizare de manifestări științifice internaționale indexate ISI	10	1. Chair Local Organizing Committee la The 1 st IEEE International Workshop on Soft Computing Applications - SOFA 2005, 27-30 August 2005, Szeged-Hungary – Arad Romania, http://www.trivent.hu/IEEESOFA2005/05_committes.html , (categoria C în ARC)
		10	2. Organizator și Co-Chair la The 2 nd IEEE International Workshop on Soft Computing Applications - SOFA 2007, 21-23 August 2007, Gyula - Hungary / Oradea – Romania, http://www.trivent.hu/SOFA2007/chai.html (categoria C în ARC, ISI Proceedings)
		10	3. Organizator și Co-Chair la The 3 rd IEEE International Workshop on Soft Computing Applications - SOFA 2009, 29 July-1 August 2009, Szeged – Hungary/Arad – Romania, http://www.trivent.hu/2009/sofa2009/chai.html (categoria C în ARC, ISI Proceedings)
		10	4. Organizator și Co-Chair la The 4 th IEEE International Workshop on Soft Computing Applications - SOFA 2010, 15-17 July 2010, Arad – Romania, http://www.trivent.hu/2010/sofa/chai.html , (categoria C în ARC)
		10	5. Publication Chair la The 5 th IEEE International Workshop on Soft Computing Applications - SOFA 2012, 22-24 August 2012, Szeged-Hungary, http://trivent.hu/2012/ieeesofa2012/chai.html , (categoria C în ARC, ISI Proceedings)
		10	6. Publication Chair la The 6 th IEEE International Workshop on Soft Computing Applications - SOFA 2014, 24-26 July, 2014, Timisoara, Romania, http://trivent.hu/2014/sofa2014/chai.html , (categoria C în ARC, ISI Proceedings)
		10	7. Recenzor la SOFA 2007
		10	8. Recenzor la SOFA 2009
		10	9. Recenzor la SOFA 2012
		10	10. Recenzor la SOFA 2014
		10	11. Recenzor la <i>IEEE Transactions on Fuzzy Systems</i> , ISSN 1063-6706, ISI impact factor: 6,306
		10	12. Recenzor la <i>IEEE Transactions on Industrial Electronics</i> , ISSN 0278-0046, ISI impact factor: 6,5
		10	13. Recenzor la <i>IEEE Transactions on Industrial Informatics</i> , ISSN 1551-3203, ISI impact factor: 8,78
		10	14. Recenzor la <i>IEEE Transactions on Systems, Man, and Cybernetics Part B</i> , ISSN 1083-4419, ISI impact factor: 3,23
		10	15. Recenzor la <i>Journal of Intelligent and Fuzzy Systems</i> , ISSN 1064-1246, ISI impact factor: 0,936



		10	16. Recenzor la <i>Biomedical Signal Processing and Control</i> , ISSN 1746-8094, ISI (impact factor: 1,68)
		10	17. Recenzor la SOFA 2016
		10	18. Recenzor la SOFA 2018
		10	19. Publication Chair: SOFA 2018 8th International Workshop on Soft Computing Applications, 13-15 Sept., 2018 , Arad, Romania. http://www.sofa2018.org/chairs.html .
		10	20. Editor Sef la <i>Agricultural Engineering Research Journal (AERJ)</i> , , DOI: 10.5829/aerj, http://idosi.org/editorial-board/agricultural-engineering-research-journal--aerj
		200	

A3.3. 2	Membru în colectivele de redacție sau comitete științifice ale revistelor, organizare de manifestări științifice internaționale indexate BDI	6	1. Chair – Local Organizing Committee al Workshopului Internațional IEEE – SOFA 2005, 27-30 august 2005, Arad –Szeged, http://www.trivent.hu/IEEEESOF2005/index.html (categoria C în ARC)
		6	2. Session Chair la Session 3 Identification and Control, la IEEE International Workshop SOFA 2005, http://www.trivent.hu/IEEEESOF2005/07 tentativeprogram.html
		6	3. Publication Chair la The 5 th IEEE International Workshop on Soft Computing Applications - SOFA 2012, 22-24 August 2012 , Szeged-Hungary, http://trivent.hu/2012/ieeesofa2012/ (categoria C în ARC)
		6	4. Membru în Program Committee, International Conference SOCO 2013 – Soft Computing Models in Industrial and Environmental Applications, Salamanca, Spania, 11-13 September, 2013 http://soco13.usal.es/?q=node/3
		6	5. Membru în Program Committee, International Conference SOCO 2014 – Soft Computing Models in Industrial and Environmental Applications, Bilbao – Spania, 25-27 June, 2014 . http://soco14.deusto.es/?q=node/3
		6	6. Membru în International Program Committee, International Conference SOCO 2015 – Soft Computing Models in Industrial and Environmental Applications, CISIS'14-ICEUTE'14, Burgos – Spania, 15-17 June, 2015 . http://soco.usal.es/?q=node/3
		6	7. Membru în International Program Committee, International Conference SOCO 2019, Sevilla 13-15 May, 2019 the 14th International Conf. on Soft Computing Models in Industrial and Environmental Applications. http://2019.sococonference.eu/
		42	

A3.3. 3	Membru in colectivele de redactie sau comitete stiintifice ale revistelor, organizare de	3	1. Editor șef al revistei <i>Agricultural Engineering Research Journal</i> .
		3	2. Editor al volumului Secțiunii Facultății de Inginerie al Simpozionului Internațional <i>Research and Education in Innovation Era</i> , Universitatea Aurel Vlaicu din Arad, 05-07 November, Arad, Romania, 2014 .
		3	3. Membru în colectivul de redacție al revistei <i>Biomedical Signal Processing and Control</i>
		3	4. Membru în colectivul de redacție al revistei <i>Information Technology and Quantitative Management</i>



	manifestari stiintifice naționale și internaționale neindexate	3 3 3 3 3 3	5. Membru în colectivul de redacție al revistei <i>Acta Politehnica Hungarica</i> 6. Membru în colectivul de redacție al revistei <i>International Journal of Engineering Research and Applications</i> 7. Membru în colectivul de redacție al revistei <i>Archives for the Philosophy and History of Soft Computing</i> . 8. Asociat Editor la <i>International Journal of System Dynamics Applications (IJSDA)</i> , ISSN 2160-9772, http://www.igi-global.com/journal/international-journal-system-dynamics-applications/51803 9. Membru în Editorial Board la <i>International Journal of Computer and Information Technologies (IJOCIT)</i> , ISSN 2345-3877, http://www.ijocit.org/index.php/editorial-board 10. Membru în Editorial Board la <i>Intelligent Decision Technologies</i> , An International Journal, ISSN 1872-4981, http://www.iospress.nl/journal/intelligent-decision-technologies/
		30	

A3.4.1	Premii în domeniu Academia Română, ASTR, academii de ramură, premii internaționale		NU
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A3.4.2	Premii în domeniu Premii naționale în domeniu	5 5 5	1. Septembrie 2005 – Certificate of Achievement din partea IEEE Romanian Section în semn de recunoaștere a eforturilor pentru organizarea Workshopului Internațional IEEE SOFA 2005 prima ediție, Szeged/Arad. 2. August 2007 – Certificate of Achievement din partea IEEE Romanian Section – în semn de recunoaștere a eforturilor pentru organizarea Workshopului Internațional IEEE SOFA 2007 ediția a doua, Jula/Oradea. 3. Senior Member IEEE 2007
		15	

	TOTAL A3	512 150	
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	TOTAL A1+A2+A3	1970,7 850	341,66 + 1117,04 + 512 = 1970,7
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**Număr de citări în cărți, reviste și volume ale unor manifestări științifice ISI (Selectie
pana in anul 2018)**

Numarul publicatiei care citeaza	Referinta bibliografica a publicatiei k care citeaza	Factor de impact
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1. World Knowledge for Control Applications by Fuzzy-Interpolative Systems M. M. Balas, V. E. Balas., Int. J. of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844, Vol. III (2008), Suppl. issue: Proceedings of ICCCC 2008, pp. 28-32, 15-17 Mai 2008 Oradea, Romania, CNCIS cat. A, ISI indexed , http://www.journal.univagora.ro/?page=supp_issue2008 – 28 puncte		
1	Adaptive fuzzy formation control for a swarm of nonholonomic differentially driven vehicles. An H^∞-based robust control design. Bijan Ranjbarsahraei, Mehdi Roopaei and Siavash Khosravi, <i>Nonlinear Dynamics</i> . DOI: 10.1007/s11071-011-0186-0. http://www.springerlink.com/content/1742012598075773/	ISI – 4,604
2	Fuzzy Logic Control System Stability Analysis Based on Lyapunov's Direct Method. R.-E. Precup, M.-L. Tomescu, St. Preitl. <i>Int. J. of Computers, Communications & Control</i> , ISSN 1841-9836, E-ISSN 1841-9844. Vol. IV (2009), No. 4, pp. 415-426	ISI – 1,585
3.	Preliminary Issues on Brain – Machine Contextual Communication Structure Development. T. Vesselenyi, I. Dzitac, S. Dzitac, C. Hora, C. Porumb. <i>SOFA '09. 3rd International Workshop on Soft Computing Applications</i> , 2009, pp. 37-42, ISBN 978-1-4244-5054-1, IEEE, INSPEC	ISI – 0,25
4.	Fuzzy Logic Is Not Fuzzy: World-renowned Computer Scientist Lotfi A. Zadeh Dzitac, I.; Filip, F. G.; Manolescu, M. J., International Journal of Computers Communications & Control, Volume: 12, Issue: 6, pp. 748-789, Published: Dec. 2017.	ISI – 1,585
5.	A Two-Variable Fuzzy Control Design With Application to an Air-Conditioning System , Yordanova, Snejana; Merazchiev, Daniel; Jain, Lakhmi, IEEE Transactions on Fuzzy Systems, Volume: 23, Issue: 2, pp. 474-481, Published: Apr. 2015.	ISI – 8,759
6.	Uncertain Fractional Order Chaotic Systems Tracking Design via Adaptive Hybrid Fuzzy Sliding Mode Control , Lin, T. C.; Kuo, C. H.; Balas, V. E. International Journal of Computers Communications & Control Volume: 6 Issue: 3 Special Issue: SI Pages: 418-427 Published: Sep. 2011.	ISI – 1,585
7.	World knowledge for sensors and estimators by models and internal models , Balas, V. E.; Jain, L. C., Journal of Intelligent & Fuzzy Systems, Vol. 21, Issue: 1-2, pp: 79-88, Published: 2010.	ISI – 1,637



2. Constant Time to Collision Platoons V. E. Balas, M. M. Balas, Int. J. of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844, Vol. III (2008), Suppl. Issue: Proceedings of ICCCC 2008, pp. 33-39, 15-17 Mai 2008 Oradea, Romania, CNCSIS cat. A, ISI indexed - 12 puncte		
1.	Trajectory optimization for eco-driving taking into account traffic constraints. Felicitas Mensing, Eric Bideaux, Rochdi Trigui, Helene Tattegrain. <i>Transportation Research Part D: Transport and Environment</i> . Vol. 18, Jan. 2013, Pp. 55–61	ISI – 1,522
2.	Quantitative indicator of homeostatic risk perception in car following. Guangquan Lu, Bo Cheng, Qingfeng Lin, Yunpeng Wang. <i>Safety Science, Volume 50, Issue 9, November 2012, Pages 1898–1905</i>	ISI – 1,139
3.	A general formulation for time-to-collision safety indicator Mahmoud Saffarzadeh; Navid Nadimi; Saber Naseralavi; Amir Reza Mamdoohi. <i>Proceedings of the ICE – Transport, Volume 166, Issue 5, Oct. 2012 pp. 294 – 304. ISSN: 0965-092X</i> http://www.icevirtuallibrary.com/content/serial/tran;jsessionid=8ffry7xkrl9k.x-telford-live-01	ISI – 0,321

3. Fuzzy controllers for tire slip control in anti-lock braking systems Precup, R.E.; Preitl, S.; Balas, M.; Balas, V., <i>Fuzzy Systems, 2004. Proceedings. 2004 IEEE International Conference on</i> , 1317 - 1322 vol.3, ISSN: 1098-7584, Print ISBN: 0-7803-8353-2, INSPEC Accession Number: 8254425, Digital Object Identifier: 10.1109/FUZZY.2004.1375359 , http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=1375359 - 20 puncte		
1.	Integrated model control of brake-wheel system using bond graph method Zhao, Jian; Hu, Zhiqiang; Zhu, Bing; et al. <i>advances In Mechanical Engineering</i> , Vol. 10, Issue: 7, Article Number: 1687814018782857 Published: Jul. 16 2018	ISI – 1,024
2.	Anti-Lock Braking System Control Design on An Integrated-Electro-Hydraulic Braking System , Liu, Tianyang; Yu, Zhuoping; Xiong, Lu; et al. <i>SAE International Journal Of Vehicle Dynamics Stability And NVH</i> , Volume: 1 Issue: 2 Pages: 298-306 Published: Jul. 2017	ISI – 0,25
3.	Modeling of III-V-based Nanohole Filling , By: Urmos, Antal; Farkas, Zoltan; Nemcsics, Akos, <i>Acta Polytechnica Hungarica</i> , Volume: 14 Issue: 2 Pages: 91-111 Published: 2017	ISI – 1,286
4.	FPA Tuned Fuzzy Logic Controlled Synchronous Buck Converter for a Wave/SC Energy System , Sahin, Erdinc; Altas, Ismail Hakki, <i>Advances In Electrical And Computer Engineering</i> , Volume: 17 Issue: 1 Pages: 39-48 Published: 2017	ISI – 0,65
5.	An Engine/Vehicle Model to Assess the Theoretical Increase of Car Safety by Using the Spark Ignition Engine to Support the Conventional Braking System , By: Terzo, A.; Gobbato, P.; Masi, M.; et al. <i>International Journal of Thermodynamics</i> Volume: 19 Issue: 4 Pages: 187-196 Published: DEC 2016	ISI – 0,25



6.	Models for Force Control in Telesurgical Robot Systems , By: Takacs, Arpad; Kovacs, Levente; Rudas, Imre J.; et al., Acta Polytechnica Hungarica Volume: 12 Issue: 8 Pages: 95-114 Published: 2015	ISI – 1,286
7.	Evaluating Software Maintenance Processes in Small Software Company based on Fuzzy Screening. By: Stojanov, Zeljko; Brtko, Vladimir; Dobrilovic, Dalibor. Edited by: Szakal, A. Conference: 9th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI) Location: Timisara, Romania Date: May 15-17, 2014. Sponsor(s): IEEE. 2014. <i>IEEE 9th International Symposium On Applied Computational Intelligence And Informatics (SACI)</i> . Pages: 67-72. Published: 2014	ISI – 0,25
8.	Conjoint simulation of active suspension and ABS . By: Zhang, Lei; Dong, En'guo; Lou, Jiexun. Edited by: Shao, J; Zhang, YQ. Conference: International Symposium on Vehicle, Mechanical, and Electrical Engineering (ISVMEE 2013) Location: Chung Hua Univ, Taiwan, Peoples R. China. Date: DEC 21-22, 2013. Sponsor(s): Chung Hua Univ; Harbin Univ Sci & Technol; NW Forestry Univ; Harbin Engn Univ. <i>Current Development Of Mechanical Engineering And Energy</i> , Pts 1 And 2 Book Series: <i>Applied Mechanics and Materials</i> . Volume: 494-495. Pp. 155-158. Published: 2014	ISI – 0,25
9.	Digital Sliding Mode Control of Anti-Lock Braking System. By: Mitic, Darko B.; Peric, Stanisa Lj.; Antic, Dragan S.; et al. <i>Advances In Electrical And Computer Engineering</i> Vol. 13, Issue 1. Pp. 33-40. Published: 2013	ISI – 0,65
10.	A fuzzy logic controller for an intelligent tires system _. By: Zhang, XW; Wang, ZX; Li, W; et al. Book Group Author(s): IEEE Conference: <i>IEEE Intelligent Vehicles Symposium</i> Location: Las Vegas, NV Date: JUN 06-08, 2005. Sponsor(s): IEEE ITSS. 2005 IEEE Intelligent Vehicles Symposium Proceedings. Pp. 875-881. Published: 2005	ISI – 0,25

4. Optimizing the distance-gap between cars by constant time to collision planning

M. M. Balas, V. E. Balas, and J. Duplax in *Proceedings of the IEEE International Symposium on Industrial Electronics (ISIE '07)*, pp. 304–309, June 2007 – **8 puncte**

1.	A Truncated Waveguide Fed by a Microstrip as a Radiating Element for High-Performance Automotive Anticollision Radars. Giovanni Andrea Casula, GiuseppeMazzarella, and Giorgio Montisci. <i>Hindawi Publishing Corporation. International Journal of Antennas and Propagation</i> . Volume 2012, Article ID 983281, 9 pages. DOI:10.1155/2012/983281 http://www.hindawi.com/journals/ijap/2012/983281/	ISI – 1,347
2.	Gaussian mixture approach to decision making for automotive collision warning systems , Han, Seul-Ki; Ra, Won-Sang; Whang, Ick-Ho; et al. <i>international Journal of Control Automation and Systems</i> _ Volume: 13 Issue: 5 pp. 1182-1192 Published: Oct. 2015	ISI – 2,181
3.	Intelligent decision making for overtaking maneuver using mixed observable Markov decision process , Sezer, Volkan, <i>Journal of Intelligent Transportation Systems</i> Volume: 22 Issue: 3 Special Issue: SI pp. 201-217 Published: 2018	ISI – 2,568





5. Switching Adaptive Correctors for Fuzzy Fusion Self-Adapted Interpolative Controllers V. E. Balas, M. M. Balas, ISCI'07 3rd International Symposium on Computational Intelligence and Intelligent Informatics, Proceedings, March 28-30, 2007, Agadir, Morocco, pag. 67-72, , Library of Congress: 2007923135 – 4 puncte		
1.	Neuro-Fuzzy System for Intelligent Course Control of Underactuated Conventional Ships. V. Nicolau, <i>SOFA 2007. 2nd International Workshop on Soft Computing Applications</i> , pp. 95-101, ISBN 978-1-4244-1608-0, IEEE, INSPEC, ISI Proceedings.	ISI – 0,25

6. World Knowledge for Control Applications M. M. Balas, V. E. Balas, INES 2007 Proceedings, 29 June-1 July, 2007 , Budapest, Hungary, 11th International Conference on Intelligent Engineering Systems, pag. 225-228, IEEE Catalog Number: 07EX1751, ISBN: 1-4244-1147-5 – 4 puncte		
1.	Neuro-Fuzzy System for Intelligent Course Control of Underactuated Conventional Ships. V. Nicolau, <i>SOFA 2007. 2nd International Workshop on Soft Computing Applications</i> , pp. 95-101, ISBN 978-1-4244-1608-0, IEEE, INSPEC, ISI Proceedings.	ISI – 0,25

7. Seven Passive Greenhouse Synergies Marius M Balas. Acta Polytechnica Hungarica, Volume: 11, Issue: 4 Special Issue: SI Pages: 199-210 Published: 2014 – 24 puncte		
1.	Galnaityte, Aiste; Krisciukaitiene, Irena; Balezentis, Tomas; et al. Evaluation of Technological, Economic and Social Indicators Of Different Farming Practices In Lithuania. Economics & Sociology, Volume: 10 Issue: 4 Pages: 189-202 Published: 2017	ISI – 0,25
2.	Hung, Paiyao; Peng, Kuanghui. Green-energy, water-autonomous greenhouse system: an alternative-technology approach towards sustainable smart-green vertical greening in smart cities. International Review For Spatial Planning And Sustainable Development Volume: 5 Issue: 1 Pages: 55-70 Published: 2017	ISI – 0,25
3.	Liu, Jun. Design and Implementation of an Intelligent Environmental-Control System: Perception, Network, and Application with Fused Data Collected from Multiple Sensors in a Greenhouse at Jiangsu, China. International Journal Of Distributed Sensor Networks Volume: 12 Issue: 7 Article Number: 5056460 Published: JUL 2016	ISI – 1,614

8. Optimization of Non-rigid Demons Registration Using Cuckoo Search Algorithm. Chakraborty, Sayan; Dey, Nilanjan; Samanta, Sourav; Balas, Marius et al. Optimization of Non-rigid Demons Registration Using Cuckoo Search Algorithm. COGNITIVE COMPUTATION Volume: 9 Issue: 6 Pages: 817-826 Published: DEC 2017 6,67 puncte		
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1.	Molina, Daniel; LaTorre, Antonio; Herrera, Francisco. An Insight into Bio-inspired and Evolutionary Algorithms for Global Optimization: Review, Analysis, and Lessons Learnt over a Decade of Competitions. Cognitive Computation Volume: 10 Issue: 4 Pages: 517-544 Published: AUG 2018.	ISI – 4,287
2.	Ángel Miguel García-Vico, Pedro González, Cristóbal José Carmona, María José del Jesus. A Big Data Approach for the Extraction of Fuzzy Emerging Patterns. Cognitive Computation 2019, pp 1–18. https://doi.org/10.1007/s12559-018-9612-7 .	ISI – 4,287
4.	Aizhu Zhang, Sihan Liu, Genyun Sun, Hui Huang, Ping Ma, Jun Rong, Hongzhang Ma, Chengyan Lin, Zhenjie Wang. Clustering of Remote Sensing Imagery Using a Social Recognition-Based Multi-objective Gravitational Search Algorithm. Cognitive Computation, 2018, pp 1–10. https://doi.org/10.1007/s12559-018-9582-9 .	ISI – 4,287
5.	Wenbo Zhang, Guangjie Han, Jing Wang, Yue Liu. A BP Neural Network Prediction Model Based on Dynamic Cuckoo Search Optimization Algorithm for Industrial Equipment Fault Prediction. IEEE Access, Vol. 7, 2019. https://doi.org/10.1109/ACCESS.2019.289279 .	ISI – 4,098

9. Structural modeling of the wind's influence over the heat flow of the greenhouses Balas Marius M.; Duplaix Jean; Bouchouicha Moez; Musca Sanda., Journal of Intelligent & Fuzzy Systems Volume: 19 Issue: 1 Pages: 29-40 Published: 2008 2 puncte		
1.	Simulation model of a greenhouse with a heat-pipe heating system , Du, Jun; Bansal, Pradeep; Huang, Bo, applied Energy Volume: 93 Special Issue: SI Pages: 268-276 Published: May 2012	ISI – 8,426

Total citari in jurnale ISI si ISI Proceedings: 33 citări– 108,67 puncte



Număr de citări în cărți, reviste și volume ale unor manifestări științifice BDI
(selectie, până în anul 2018)

Nr. publicatiei care citeaza	Referinta bibliografica a publicatiei <i>k</i> care citeaza	Factor de impact
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1. Driver Assisting by Inverse Time to Collision

Balas V.E., Balas M.M. *Automation Congress, 2006. WAC '06. World*, Issue Date: 24-26 July 2006, On page(s): 1 – 6, Budapest, Print ISBN: 1-889335-33-9. INSPEC Accession Number: 9719036, Digital Object Identifier: [10.1109/WAC.2006.376059](https://doi.org/10.1109/WAC.2006.376059) - **4 puncte**

1.	Haptic collision avoidance for a remotely operated quadrotor UAV in indoor environments. Brandt, A.M., Colton, M.B. Dept. of Mech. Eng., Brigham Young Univ., Provo, UT, USA. <i>2010 IEEE International Conf. on Systems Man and Cybernetics SMC</i> . Issue Date: 10-13 Oct. 2010, pp. 2724 – 2731. Location: Istanbul. ISSN: 1062-922X. Print ISBN: 978-1-4244-6586-6. INSPEC Acces. Number: 11665009. DOI: 10.1109/ICSMC.2010.5641798	ARC, Cat. B
2.	Safety Differences between Novice and Experienced Drivers under Car-Following Situations. Xiao-qian Li; Jun Jiang. 2011 <i>American Society of Civil Engineers, ICCTP 2011</i> : pp. 2196-2207. DOI: 10.1061/41186(421)219	

2. The Family of Fuzzy Self Adaptive Interpolative Controllers

M. Bălaș, V. Bălaș, *International Conference on Information Processing and Management of Uncertainty in Knowledge-based Systems, IPMU2004, Special Session „Control”, July 4 – 9, 2004, Perugia, Italy, Vol III*, pp. 2119-2124, (ARC Cat. C), *Google Scholar* - **4 puncte**

1.	Rotation Speed and Wind Speed Indirect Measurement Methods for the Control of Windmills with Fixed Blades Turbine. Budisan, N., Groza, V., Prosteian, O., Filip, I. <i>Instrumentation and Measurement Technology Conference Proc.</i> , 2008. IMTC 2008. IEEE, pp. 912-916, ISBN 978-1-4244-1540-3, IEEE, INSPEC	
2.	The fuzzy-interpolative ADL matrix. Florian G.L., 2009. <i>SOFA '09. 3rd International Workshop on Soft Computing Applications</i> , pp. 247-252. ISBN 978-1-4244-5054-1, IEEE, INSPEC	

3. A model of the sliding Wheel During Braking

M. Balas, V. Balas, L. Foulloy, S. Galichet, BOGIE 2001: *The 5-th International Conference on Railway Bogies and Running Gears*, Budapest University of Technology and Economics, Department of Railway Vehicles, Sept. 2001, Budapest, Hungary, **SCOPUS indexed. – 3 puncte**

1.	Simulation based design of fuzzy wheel slide protection controller for rail vehicles. Barna G., 15th International Conference on Methods and Models in Automation and Robotics (MMAR) 2010, pp. 186-191, ISBN 978-1-4244-7828-6, IEEE, INSPEC	
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2.	Experimental evaluation of the effect of braking torque on bogie dynamics. M. Dhanasekar, C. Cole and Y. Handoko, <i>Int. J. Heavy Vehicle Systems</i> , Vol. 14, No. 3, 2007, pag. 308-330.	
3.	Theoretical analysis of Wheel Slide Protection controllers for rail vehicles. Barna G., <i>16th International Conference on Methods and Models in Automation and Robotics (MMAR) 2011</i> , pp. 230-235, ISBN 978-1-4577-0912-8, IEEE, INSPEC	

4. The Fuzzy-Interpolative Concept Applied In Soft Computing

M. M. Balas, V. E. Balas, D. V. Balas Timar, L. R. Szantho, The 7th WSEAS International Conference on Automation and Information (ICAI'06), Cavtat, Croatia, June 12-14, 2006, ISSN: 1790-5109, ISSN: 1790-5117, ISBN: 960-8457-46-7, pag.95-100, Publisher WSEAS(World Scientific and Engineering Academy and Society) Stevens Point, Wisconsin, USA, **ACM Indexed – 1 punct**

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1.	Remote Ethernet PLC Networking and Control , Norbert Gal, <i>17th Telecommunications forum TELFOR 2009</i> , Serbia, Belgrade, November 24-26, 2009, pp. 759-762.	
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1.	Mahdi Mansouri, Hosein Gholizadeh. <i>Optimal Location of Distributed Generation Sources and Capacitance of Distribution Network to Reduce Losses, Improve Voltage Profile, and Minimizing the Costs Using Genetic and Harmonic Search Algorithm.</i> International Journal of Science and Engineering Applications, 2018, 7, pp.71 - 79. https://hal.archives-ouvertes.fr/hal-02093061 .	ISI – 9,18

Total citari în cărți, reviste și volume ale unor manifestări științifice BDI: 14 citări - 19,63 pct.

$$A1 + A2 + A3 = 341,66 + 1117,04 + 512 = 1970,7$$

Factor de impact ISI: 35,026

10



Centralizator

TOTAL A1	341,66	Condiție minimă profesor= 100
TOTAL A2	1117,04	Condiție minimă profesor= 600
TOTAL A3	640,3	Condiție minimă profesor= 150
TOTAL A	2099	Condiție minimă profesor= 850

A3.1.1	Citari in carti, reviste si volume ale unor manifestari stiintifice ISI	33 citări– 108,67 puncte
A3.1.2	Citari in carti, reviste si volume ale unor manifestari stiintifice BDI	14 citări - 19,63 puncte

Factor de impact al brevetelor de invenție	3,5	
Factor de impact al publicațiilor ISI	25,776	
Factor de impact al publicațiilor ISI Proc.	5,75	
Factor de impact al publicațiilor ISI și ISI Proc.	31,526	
Factor de impact cumulat	35,026	Condiție minimă profesor= 10

Condiții minime obligatorii pe subcategorii

Subcategorii		Profesor	Condiție îndeplinită
A1.1.1-A1.1.2	Cărți de specialitate	1 carte	DA – 2 cărți
A2.1	Articole ISI și ISI Proceedings (minim 3 în Q1 sau Q2)	15	DA – 13 ISI, 23 ISI Proc., 1 Q1, 3 Q2
A2.4.1	Director/responsabil pentru proiecte de cercetare	2	DA – 10 proiecte
A3.1.1	Număr de citări în lucrări și manifestări ISI (WOS)	25	DA – 47 de citări
	Factor de impact ISI	10	DA - 35,026 puncte

Data completării: **09.09.2019**

Prof.dr.ing. Marius M. BĂLAȘ

Verificat:

Președintele comisiei:

Membrii comisiei:

.....

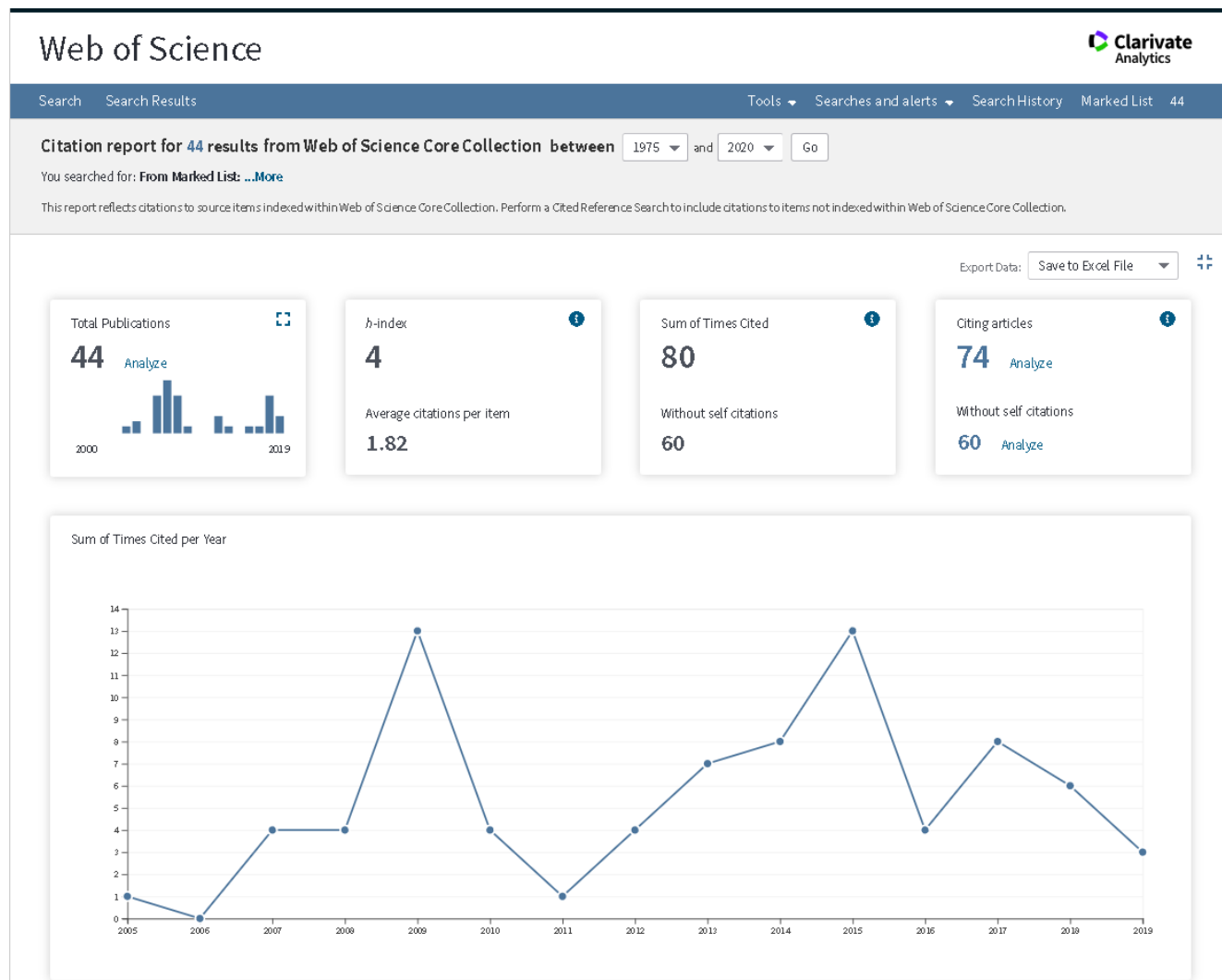
Pag. 31 /29

Fișa de verificare a îndeplinirii standardelor minime – Marius M. Bălaș

Arad, 09.09.2019

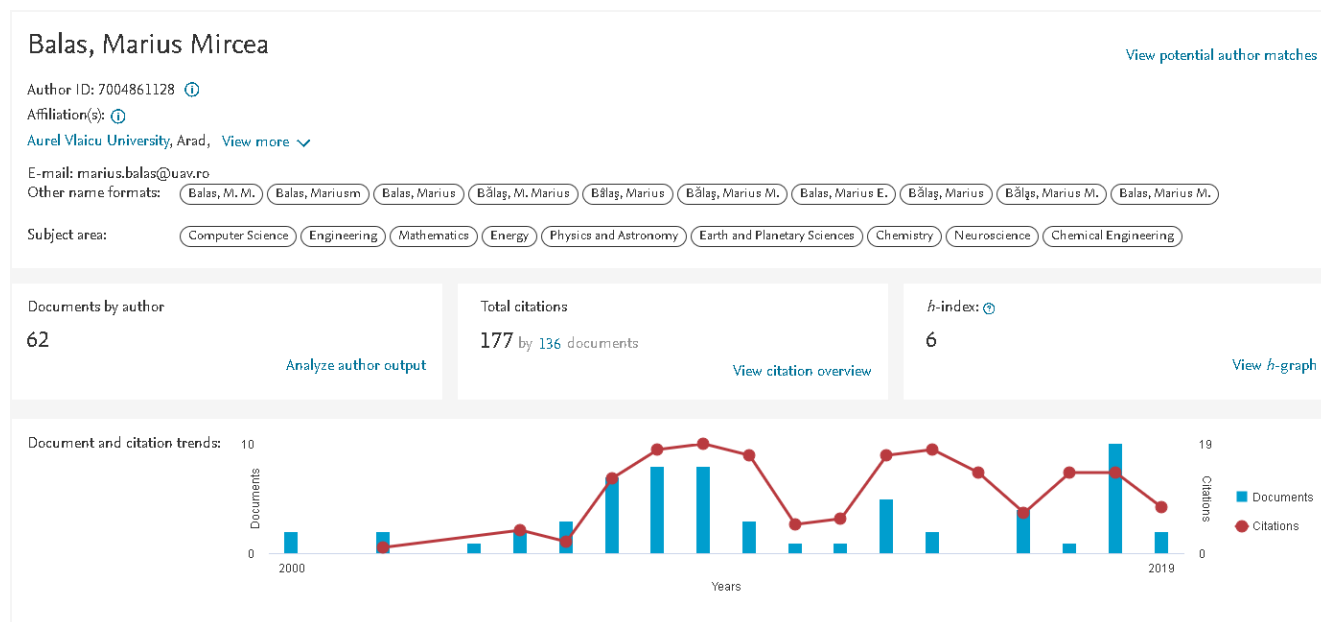



Profil ISI Web of Knowledge – Marius M. Balas



M. Balas

Profil SCOPUS – Marius M. Balas



Profil Google Scholar – Marius M. Balas

M. Balas



Balas Marius

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Aurel Vlaicu University of Arad, Romania

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TITLU	CITAT DE	ANUL
Fuzzy controllers for tire slip control in anti-lock braking systems RE Precup, S Preitl, M Balas, V Balas 2004 IEEE International Conference on Fuzzy Systems (IEEE Cat. No. 04CH37542 ...	54	2004
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On the Interpolative Side of the Fuzzy Sets LT Kóczy, MM Balas, M Ciugudean, VE Balas, J Botzheim Proc. of the IEEE International Workshop on Soft Computing Applications SOFA ...	22	2005
The Family of Self Adaptive Interpolative Controllers MM Balas, VE Balas Proc. of Information Processing and Management of Uncertainty in Knowledge ...	20	2004
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World knowledge for control applications by fuzzy-interpolative systems MM Balas, VE Balas International Journal of Computers Communications and Control 3: 28-32	14	2008

Citat de

AFIȘAȚI-LE PE TOATE

	Toate	Din 2014
Referințe bibliografice	402	125
h-index	10	4
i10-index	11	3

