

**UNIVERSITATEA AUREL VLAICU DIN ARAD****FACULTATEA DE INGINERIE****DEPARTAMENTUL DE AUTOMATIZĂRI, AUTOMOBILE, INGINERIE****INDUSTRIALĂ ȘI TEXTILE**

Concurs pentru ocuparea postului de Profesor poz. 2

Disciplinele postului: Teoria sistemelor, Măsurări și traductoare, Circuite integrate analogice, Inteligență artificială, Sisteme dinamice cu evenimente discrete

**Domeniul Calculatoare, tehnologia informației și ingineria sistemelor****FIŞA DE VERIFICARE**a îndeplinirii standardelor universității de prezentare la concurs pentru postul de  
**Profesor universitar****1. Studiile de doctorat**

Nr crt.	Instituția organizatoare de doctorat	Domeniu	Perioada	Titlul științific acordat
1	Universitatea Politehnica Timișoara	Inginerie Electronică și Telecomunicații	1995-2003	Doctor

**2. Îndeplinirea standardelor minime ( v. și Anexa 15 – OM 6560/2012))****2.1. Condiții minime**

Criteriul	Domeniul de activitate	Realizat	Profesor universitar – cerinte minime
A1	Activitatea didactică/profesională	540	100
A2	Activitatea de cercetare	1016,41	500
A3	Recunoașterea impactului activității	1081,5	100

**2.2. Condiții minime obligatorii pe subcategorii**

Subcriteriul	Realizat	Profesor universitar
A1.1.1 – A1.1.2	20	4 cărți/capitole
A1.2.1 – A1.2.2	3	2

A2.1	Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings	47	12
A2.4.1	Granturi/proiecte castigate prin competitie (Director/ responsabil )	33	2
A3.1.1 – A3.1.2	Numar de citări in carti, reviste si volume ale unor manifestari stiintifice ISI sau BDI	89	20
	Factor de impact cumulat pentru publicatii	16,83	6

\* Se vor trece pentru fiecare criteriu (din standardele impuse) toate lucrările, cu precizarea punctajului care revine candidatului pentru fiecare lucrare și a tuturor informațiilor privind lucrările: autorii, titlul lucrării, titlul revistei/cărții, anul, volumul, numărul, pagina la care începe articolul și pagina la care se termină articolul, nr. pagini carte, editura în care a fost publicată cartea, instituția care a acordat brevetul, ISSN/ISBN, etc.

Conf.dr.ing. VALENTINA E. BĂLAŞ

# Fișă de verificare a îndeplinirii standardelor minimale

Conf.dr.ing. Valentina Emilia Bălaș

Universitatea „Aurel Vlaicu” Arad

Indica torul	Denumirea indicatorulu i	Punctaj ul	Elementul pentru care se acordă punctajul
A1.1.1	Carti/ Monografii si capitole de carti de specialitate in edituri recunoscute Internationale	25 25 25 25 25 25	<p><b>1.</b> <b>Valentina E. Bălaș</b>, Janos Fodor, Annamaria Várkonyi-Kóczy, Jozsef Dombi, Lakhmi C. Jain (<b>editori</b>) la <i>Soft Computing Applications, Proceedings of the 5th International Workshop Soft Computing Applications (SOFA 2012), Advances in Intelligent Systems and Computing, Springer, 2013</i>, Vol. 195, ISBN 978-3-642-33941-7, 726 pag. ISI Proceedings.</p> <p><b>2.</b> <b>Valentina E. Bălaș</b>, Annamaria Varkonyi-Koczy, Janos Fodor (<b>editori</b>) la “ <i>New Concepts and Applications in Soft Computing, Studies in Computational Intelligence</i>, Berlin: <b>Springer</b>, 2012, Vol 417, ISBN 978-3-642-28958-3, 278 pag.  <a href="http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-28958-3">http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-28958-3</a></p> <p><b>3.</b> <b>Valentina E. Bălaș</b>, Annamaria Varkonyi-Koczy, Janos Fodor (<b>editori</b>) la “ <i>Soft Computing Based Modeling in Intelligent Systems</i>”, <i>Studies in Computational Intelligence</i>, Berlin: <b>Springer</b>, 2009, Vol. 196, ISBN 978-3-642-00447-6, 206 pag.  <a href="http://www.springer.com/engineering/book/978-3-642-00447-6">http://www.springer.com/engineering/book/978-3-642-00447-6</a></p> <p><b>4.</b> Jain, L.C.; Sato-Ilic, M.; Virvou, M.; Tsihrintzis, G.A.; <b>Valentina E. Bălaș</b>, Abeynayake, C., (<b>editori</b>), la <i>Computational Intelligence Paradigms, Innovative Applications, Studies in Computational Intelligence</i>, Springer, 2008, Vol. 137, VIII, ISBN: 978-3-540-79473-8, 282 pag.</p> <p><b>5.</b> <b>Valentina E. Bălaș</b>, 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, <i>LNCS 5179/2008</i>, pag. 658–663, 2008, © Springer-Verlag Berlin Heidelberg 2008, ISBN 978-3-540-85566-8,  <a href="http://www.springerlink.com/content/54066776m5814356/">http://www.springerlink.com/content/54066776m5814356/</a>,  DPLB (Computer Science Bibliography) indexed, ACM, SCOPUS indexed, (ARC Cat. B).</p> <p><b>6.</b> Marius M. Bălaș, <b>Valentina E. Bălaș</b> – <i>Postmodernism and Control Engineering</i>, Rudolf Seising (editor): Views on Fuzzy Sets and Systems from Different Perspective. Philosophy, Logic; Criticism and</p>

			Applications, Vol. 243, ISBN 978-3-540-93801-9, Cap 18, pag. 377-390, 2009, DPLB (Computer Science Bibliography) indexed, <a href="http://www.springerlink.com/content/n2jvt13463n5pj37/">http://www.springerlink.com/content/n2jvt13463n5pj37/</a>
25			7. Marius M. Bălaş, Valentina E. Bălaş – <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, ISBN978-3-642-01884-8, pag. 219–231, 2009, Springer, DPLB (Computer Science Bibliography) indexed, <a href="http://www.springer.com/engineering/book/978-3-642-01884-8">http://www.springer.com/engineering/book/978-3-642-01884-8</a> .
25			8. Marius M. Bălaş, Valentina E. Bălaş, <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, <u>Communications in Computer and Information Science</u> , 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, SCOPUS Indexed, <a href="http://www.springerlink.com/content/u50wln1652815147/">http://www.springerlink.com/content/u50wln1652815147/</a> , (ARC Cat. C)
25			9. Nicolae Popescu-Bodorin, Valentina E. Bălaş, <i>Learning Iris Biometric Digital Identities for Secure Authentication. A Neural-Evolutionary Perspective Pioneering Intelligent Iris Identification</i> , Springer, Title of the book: Recent Advances in Intelligent Engineering Systems, Volume 378, Editor(s): J. Fodor, R. Klempous and C.P. Suárez Araujo, pag.. 405-430. Springer Verlag, 2011, SBN 978-3-642-23229-9, <a href="http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-23228-2">http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-23228-2</a>
25			10. Valentina E. Bălaş, Iulia Moțoc, Alina Barbulescu, <i>Combined Haar-Hilbert and Log-Gabor Based Iris Encoders</i> , Title of the book: New concepts and applications in Soft Computing, Volume, Studies in Computational Intelligence, Vol. 417, Balas, V. E.; Fodor, J; Varkonyi-Koczy, A. (Eds.), 2012, XII, ISBN 978-3-642-28958-3, pag. 1-26, Springer. <a href="http://link.springer.com/book/10.1007/978-3-642-28959-0/page/1">http://link.springer.com/book/10.1007/978-3-642-28959-0/page/1</a>
25			11. Valentina E. Bălaş, Marius M. Bălaş, <i>Fuzzy Systems towards Field Applications</i> , Rudolf Seising, Enric Trillas, Claudio Moraga, and Settimio 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, <a href="http://link.springer.com/book/10.1007/978-3-642-35641-4/page/1">http://link.springer.com/book/10.1007/978-3-642-35641-4/page/1</a> , <a href="http://link.springer.com/chapter/10.1007/978-3-642-35641-4_3#page-1">http://link.springer.com/chapter/10.1007/978-3-642-35641-4_3#page-1</a>
			12. Ahmad Taher Azar, Shaimaa A. El-Said, Valentina E. Bălaş and Teodora Olariu, <i>Linguistic Hedges Fuzzy Feature Selection for Differential Diagnosis of Erythemato-Squamous Diseases</i> , in Advances in Intelligent and Soft Computing, Series Ed.: Kacprzyk, Janusz, Proceedings of the 5 <sup>th</sup> International Workshop on Soft Computing Applications – SOFA

			<p><b>2012</b> August 22-24, 2012, Szeged, Hungary, V. E. Balas, J. Fodor, A. Varkonyi-Koczy, J. Dombi and L. C. Jain, (Eds.), <b>Springer</b>, 2013, ISBN 978-3-642-33941-7, pag. 487–500, (ARC Cat. C, SCOPUS, ISI Proceedings),  <a href="http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-33940-0">http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-33940-0</a></p>
		<b>25</b>	<p><b>13.</b> Nicolaie Popescu-Bodorin, <b>Valentina E. Bălaș</b> and Iulia Maria Motoc, <i>The Biometric Menagerie – A Fuzzy and Inconsistent Concept</i>, in Advances in Intelligent and Soft Computing, Series Ed.: Kacprzyk, Janusz, Proceedings of the 5<sup>th</sup> International Workshop on Soft Computing Applications – SOFA <b>2012</b> August 22-24, 2012, Szeged, Hungary, V. E. Balas, J. Fodor, A. Varkonyi-Koczy, J. Dombi and L. C. Jain, (Eds.), <b>Springer</b>, 2013, ISBN 978-3-642-33941-7, pp. 27–43, (ARC Cat. C, SCOPUS, ISI Proceedings),  <a href="http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-33940-0">http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-33940-0</a></p>
		<b>25</b>	<p><b>14.</b> Tsung-Chih Lin, Wei-Nan Liao and <b>Valentina E. Bălaș</b>, <i>Memristor-Based Phase-Lead Controller Circuit Design</i>, in Advances in Intelligent and Soft Computing, Series Ed.: Kacprzyk, Janusz, Proceedings of the 5<sup>th</sup> International Workshop on Soft Computing Applications – SOFA <b>2012</b> August 22-24, 2012, Szeged, Hungary, V. E. Balas, J. Fodor, A. Varkonyi-Koczy, J. Dombi and L. C. Jain, (Eds.), <b>Springer</b>, 2013, ISBN 978-3-642-33941-7, pag. 309–318, (ARC Cat. C, SCOPUS, ISI Proceedings),  <a href="http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-33940-0">http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-33940-0</a></p>
		<b>25</b>	<p><b>15.</b> Ahmad Taher Azar and <b>Valentina E. Bălaș</b>, <i>Classification and Detection of Diabetic Retinopathy</i>, Advances in Intelligent analysis of Medical Data and Decision Support Systems, Studies in Computational Intelligence, <b>Springer</b>, Volume 473, 2013, Roumen Kountchev and Barna Iantovics, (Eds.), ISBN: 978-3-319-00028-2 (Print) 978-3-319-00029-9 (Online), pp.135-145, From 2nd International Workshop on Next Generation Medical Decision Support Systems 2012 MedDecSup'2012, Sofia, Bulgaria, 10-11 July.</p>
			<p><b>16.</b> Ahmed T. Azar, <b>Valentina E. Bălaș</b>, Teodora Olariu, <i>Classification of EEG-Based Brain-Computer Interfaces</i>, Springer, Advanced Intelligent Computational Technologies and Decision Support Systems, Barna Iantovics, Roumen Kountchev (Eds.) in <i>Studies in Computational Intelligence</i>, ISBN: 978-3-319-00466-2 (Print) 978-3-319-00467-9, Volume 486, 2014, pag. 97-106.</p>
<b>A1.1.2</b>	Carti/Mono grafii și capitole de cărți de specialitate în edituri recunoscute naționale	<b>20</b>	<p><b>1.</b> <b>Valentina E. Bălaș</b>, Teoria Sistemelor, Editura Universității “Aurel Vlaicu” Arad, 2013, ISBN 978-973-752-672-4, 150 pag.</p>
		<b>20</b>	<p><b>2.</b> <b>Valentina E. Bălaș</b>, Editor la volumul Proceedings of International Symposium <i>Research and Education in Innovation Era</i>, Section 3, <i>Engineering Processes and Technology, Electrical</i>, Arad, 16-18 November 2006, ISBN: 9978-973-752-110-1, Editura Universității “Aurel</p>

			Vlaicu" din Arad, 457 pag.
	20		3. Valentina E. Bălaş, <i>Senzori inteligenți cu model intern și fuziune</i> , 2004, Timișoara, ISBN 973-625-113-6, 151 pag., Prefață scrisă de Prof. Lotfi A. Zadeh.
	20		4. Marius M. Bălaş, Valentina E. Bălaş, <i>Curs de Dispozitive Electronice</i> , Editura Universității "Aurel Vlaicu" Arad, 2003, ISBN 973-9361-83-8, 126 pag.
	20		5. Marius M. Bălaş, Valentina E. Bălaş <i>Dispozitive și circuite electronice</i> , Îndrumător de laborator, Editura Universității "Aurel Vlaicu" Arad, 2000, ISBN 973-9361-38-2, 55 pag.
	20		6. Valentina E. Bălaş, Marius M. Bălaş. <i>A Survey on the Constant Time to Collision Techniques</i> , Lotfi A. Zadeh, Dan Tufiș, Florin Gheorghe Filip, Ioan Dzitac (eds.), From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence , Editing House of Romanian Academy, ISBN:978-973-27-1678-6, 2008 , pag. 23-31.
	20		7. Marius M. Bălaş, Valentina E. Bălaş. <i>World Knowledge for Controllers by Fuzzy-Interpolative Systems</i> , Lotfi A. Zadeh, Dan Tufiș, Florin Gheorghe Filip, Ioan Dzitac (eds.), From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence , Editing House of Romanian Academy, ISBN:978-973-27-1678-6, 2008, pag.11-21.
<b>TOTAL AI</b>		<b>540/100</b>	
<b>A2.1</b>	Articole în reviste cotate și în volumele unor manifestări științifice indexate ISI Proceedings	<b>11,249</b>	1. Valentina E. Bălaş, E. Rovența, T. Spircu. <i>Fusion devices and changes of belief</i> , Journal of Intelligent and Fuzzy Systems, Volume 19, Number 1 / 2008, Special Issue on Soft Computing and Applications, IOS Press, ISSN 1064-1246 (Print) 1875-8967 (Online), pp. 9-18, <a href="http://iospress.metapress.com/content/q0h6213h3k20/?sortorder=asc&amp;v=condensed">http://iospress.metapress.com/content/q0h6213h3k20/?sortorder=asc&amp;v=condensed</a> ISI indexed (impact factor: 0,649), RIF/2010 = 0.488.
		<b>16,91</b>	2. Valentina E. Bălaş, Marius M. Bălaş. <i>Constant Time to Collision Platoons</i> , Int. J. of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844, Vol. III (2008), Suppl. issue: Proceedings of ICCTC 2008, pp. 33-39, 15-17 Mai 2008 Oradea, Romania, CNCSIS cat. A, <a href="http://www.journal.univagora.ro/?page=supp_isue2008">http://www.journal.univagora.ro/?page=supp_isue2008</a> , <a href="http://www.journal.univagora.ro/download/icccc08.pdf">http://www.journal.univagora.ro/download/icccc08.pdf</a> , ISI indexed (impact factor: 0,441, SRI: 0,093/2012).
		<b>16,91</b>	3. Marius M. Bălaş, Valentina E. Bălaş. <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 ICCTC 2008, pp. 28-32, 15-17 Mai 2008 Oradea, Romania, CNCSIS cat. A, ISI indexed (impact factor: 0,441, SRI: 0,093/2012).

			<a href="http://www.journal.univagora.ro/?page=supp_isue2008">http://www.journal.univagora.ro/?page=supp_isue2008</a>
16,874			<p>4. Valentina E. Bălaș, L. C. Jain, <i>World knowledge for sensors and estimators by models and internal models</i>, Journal of Intelligent and Fuzzy Systems, <u>Volume 21, Number 1-2 / 2010</u>, IOS Press, ISSN 1064-1246 (Print) 1875-8967 (Online), pp. 79-88, DOI 10.3233/IFS-2010-0437  <a href="http://iospress.metapress.com/content/95nrj532w0121785/?p=ef012eaa4c41494e9e761820d94c13df&amp;pi=7">http://iospress.metapress.com/content/95nrj532w0121785/?p=ef012eaa4c41494e9e761820d94c13df&amp;pi=7</a> , ISI indexed (impact factor: 0,649), RIF/2010 = 0.488.</p>
16,616			<p>5. Tsung-Chih Lin, Tun-Yuan Lee, <b>Valentina E. Bălaș</b>, <i>Adaptive fuzzy sliding mode control for synchronization of uncertain fractional order chaotic systems</i>, <b>Chaos, Solitons &amp; Fractals</b>, ISSN 0960-0779, Elsevier, Volume 44, Issue 10, October 2011, Pages 791-801 factor de impact relativ - ISI – 1,4092, (1.2348224513173 – 2010), doi:10.1016/j.chaos.2011.04.005, <a href="http://sd1.myipcn.org/science/article/pii/S0960077911001433">http://sd1.myipcn.org/science/article/pii/S0960077911001433</a></p>
11,273			<p>6. Tsung-Chih Lin, Chia-Hao Kuo, <b>Valentina E. Bălaș</b>, <i>Uncertain Fractional Order Chaotic Systems Tracking Design via Adaptive Hybrid Fuzzy Sliding Mode Control</i>, <b>INTERNATIONAL JOURNAL of COMPUTERS, COMMUNICATIONS &amp; CONTROL</b>, ISSN 1841-9836, E-ISSN 1841-9844 . Year: 2011 Volume: 6 Number: 3 (September), <i>This Issue is Dedicated to Professor Lotfi A. Zadeh on the Occasion of his 90th Birthday</i>, Guest editors: Valentina E. Balas, Ioan Dzitac and Horia-Nicolai Teodorescu, Agora University Editing House, pag. 400-409, ISI indexed (impact factor: 0,441, SRI: 0,093/2012).</p>
16,2345			<p>7. Tsung-Chih Lin, Chia-Hao Kuo, Tun-Yuan Lee and <b>Valentina E. Bălaș</b>, <i>Adaptive Fuzzy <math>H^\infty</math> Tracking Design of SISO Uncertain Nonlinear Fractional Order Time-Delay Systems</i>, <b>Nonlinear Dynamics</b>, <u>Volume 69, Number 4 (2012)</u>, pag. 1639-1650, DOI: 10.1007/s11071-012-0375-5, Springer, ISSN 0924-090X, ISI, Impact Factor 1,9969. <a href="http://www.springer.com/materials/mechanics/journal/11071">http://www.springer.com/materials/mechanics/journal/11071</a></p>
11,273			<p>8. Zhenbin Du, Tsung-Chih Lin, <b>Valentina E. Bălaș</b>, <i>A New Approach to Nonlinear Tracking Control Based on Fuzzy Approximation</i>, <b>INTERNATIONAL JOURNAL of COMPUTERS, COMMUNICATIONS &amp; CONTROL</b>, ISSN 1841-9836, E-ISSN 1841-9844 . Year: 2012 Volume: 7 Number: 1 (March), Agora University Editing House, pag. 61-72, ISI indexed (impact factor: 0,441, SRI: 0,093/2012).</p>
14,107			<p>9. Tsung-Chih Lin, Chia-Hao Kuo, <b>Valentina E. Bălaș</b>, <i>Real-Time Fuzzy System Identification Using Uncertainty Bounds</i>,</p>

			<b>Neurocomputing</b> , ISSN: 0925-2312, Elsevier, on line 9 June 2013, <a href="http://dx.doi.org/10.1016/j.neucom.2013.05.011">http://dx.doi.org/10.1016/j.neucom.2013.05.011</a> , <u>How to Cite or Link Using DOI</u> , ISI ( impact factor: 0,866/2012).
	<b>Reviste ISI</b>	<b>131,446</b>	
		<b>6,25</b>	<b>10.</b> R. E. Precup, S. Preitl, Marius M. Bălaș, <b>Valentina E. Bălaș</b> , <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).
		<b>12,5</b>	<b>11.</b> Marius M. Bălaș, <b>Valentina E. Bălaș</b> , <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.
		<b>12,5</b>	<b>12.</b> Dana Bălaș-Timar, <b>Valentina E. Bălaș</b> , <i>Decision Making in Human Resources Selection Methodology</i> , 2nd IEEE International Workshop on Soft Computing Applications, 21-23 August 2007, Gyula-Hungary, Oradea-Romania, pp. 123-127, IEEE Catalog Number: CFP0728D, ISBN 978-1-4244-1607-3, Library of Congreso 2007905895, Digital Object Identifier 10.1109/SOFA.2007.4318316, Indexed by IEE INSPEC IEEE CNF, INSPEC Indexed, IEEE Xplore, ISI Proceedings, (ARC Cat. C).
		<b>6,25</b>	<b>13.</b> Navid Noroozi, Mehdi Roopaei, <b>Valentina E. Bălaș</b> , Tsung-Chih Lin, <i>Observer-Based Adaptive Variable Structure Control and Synchronization of Unknown Chaotic Systems</i> , 5 <sup>th</sup> International Symposium on Applied Computational Intelligence and Informatics, SACI 2009, May 28-29, 2009, Timisoara, Romania, pag. 71-76, ISBN: 978-1-4244-4478-6, IEEE Catalog Number CFP0945C-CDR, Library of Congress 2009903350, Digital Object Identifier 10.1109/SACI.2009.5136215 BDI Indexed, INSPEC, IEEE Xplore, ISI Proceedings, (ARC Cat. C).
		<b>8,33</b>	<b>14.</b> Marius M. Bălaș, <b>Valentina E. Bălaș</b> , 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 Number: 07TH8928C, ISBN: 1-4244-0755-9 Library of Congress: 2006935487, INSPEC Indexed, IEEE
		<b>12,5</b>	

			Xplore, ISI Proceedings.
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	4		<p><b>30.</b> Nicolaie Popescu-Bodorin, <b>Valentina E. Balas</b>, <i>From Cognitive Binary Logic to Cognitive Intelligent Agents</i>, IEEE 14<sup>th</sup> International Conference on Intelligent Engineering Systems, <b>INES 2010</b>, pag. 337-340, May 5-7, 2010, Las Palmas of Gran Canaria, Spain, ISBN: 978-1-4244-7651-0, IEEE Catalog Number: CFP10IES-CDR, SCOPUS Indexed</p>
	10		<p><b>31.</b> Tsung-Chih Lin, Shuo-Wen Chang, Tun-Yuan Lee, <b>Valentina Emilia Balas</b>, Mehdi Roopaei, <i>A Novel Takagi-Sugeno-Based Robust Adaptive Fuzzy Synchronization of Discrete-Time Chaotic Systems</i>, IEEE International Joint Conference on Computational Cybernetics and Technical Informatics, <b>ICCC-CONTI 2010</b>, pag 61-66, May 27-29, Timisoara, Romania, ISBN: 978-1-4244-7431-8, IEEE Catalog Number: CFP10575-CDR, SCOPUS Indexed, INSPEC, (ARC Cat. C)</p>
	10		<p><b>32.</b> Nicolaie Popescu-Bodorin, Valentina E. Balas, <i>AI Challenges in Iris Recognition. Processing Tools for Bath Iris Image Database</i>. Recent Advances in Automation &amp; Information, Proc. WSEAS 11<sup>th</sup> Int. Conf. on Automation &amp; Information (ICAII'10) June 13-15, Iasi, Romania, pp. 116-121, ISSN: 1790-5117, ISBN 978-960-474-193-9, WSEAS Press., ACM</p>
6,66			<p><b>33.</b> Nicolae Popescu-Bodorin, <b>Valentina E. Balas</b>, <i>Comparing Haar-Hilbert and Log-Gabor Based Iris Encoders on Bath Iris Image Database</i>, 4<sup>th</sup> International Workshop on Soft Computing Applications, <b>SOFA 2010</b>, pag. 191-196, 15-17 July 2010, Arad, Romania, ISBN: 978-1-4244-7982-5, IEEE Catalog Number: CFP1028D-PRT, SCOPUS Indexed, INSPEC, (ARC Cat. C)</p>
	5		<p><b>34.</b> Ahmad T. Azar, <b>Valentina E. Balas</b>, Teodora Olariu, <i>Artificial Neural Network for Accurate Prediction of Post-Dialysis Urea Rebound</i>, 4<sup>th</sup> International Workshop on Soft Computing Applications, <b>SOFA 2010</b>, pag. 165-170, 15-17 July 2010, Arad, Romania, ISBN: 978-1-4244-7982-5, IEEE Catalog Number: CFP1028D-PRT, SCOPUS Indexed, INSPEC, (ARC Cat. C)</p>
	4		<p><b>35.</b> Tsung-Chih Lin, Kang-Wei Hsu, <b>Valentina E. Balas</b>, Mehdi Roopaei, <i>Stable Adaptive Synchronization of a Class of Uncertain Time-Delay Chaotic Systems via H<sub>oo</sub> type-2 FNN Control</i>, 4<sup>th</sup> International Workshop on Soft Computing Applications, <b>SOFA 2010</b>, pag. 237-242, 15-17 July 2010, Arad, Romania, ISBN: 978-1-4244-7982-5,</p>

			IEEE Catalog Number: CFP1028D-PRT, SCOPUS Indexed, INSPEC, (ARC Cat. C)
	10		<p><b>36.</b> Tsung-Chih Lin, Ming-Che Chen, <b>Valentina E. Balas</b>, Mehdi Roopaei, Chien-Ming Lee, <i>Synchronization of Uncertain Multivariable Chaotic Systems Using Adaptive Interval Type-2 Fuzzy Sliding Mode Control</i>, 4<sup>th</sup> International Workshop on Soft Computing Applications, SOFA 2010, pag. 249-254, 15-17 July 2010, Arad, Romania, ISBN: 978-1-4244-7982-5, IEEE Catalog Number: CFP1028D-PRT, SCOPUS Indexed, INSPEC, (ARC Cat. C)</p>
	6,66		<p><b>37.</b> Nicolae Popescu-Bodorin, <b>Valentina E. Balas</b>, <i>Exploratory simulation of an Intelligent Iris Verifier Distributed System</i>, SACI 2011 - 6th IEEE International Symposium on Applied Computational Intelligence and Informatics, May 19-21, 2011 in Timisora, Romania, Proceedings, art. no. 5873010, ISBN 978-1-4244-9107-0, Catalog Number CFP1145C-CDR, pp. 259-262, SCOPUS indexed, <a href="http://conf.uni-obuda.hu/saci2011/index.html">http://conf.uni-obuda.hu/saci2011/index.html</a>, (ARC Cat. C)</p>
	6,66		<p><b>38.</b> N. Popescu-Bodorin, <b>V.E. Balas</b>, I.M. Motoc, <i>Iris Codes Classification Using Discriminant and Witness Directions</i>, 5<sup>th</sup> International Symposium on Computational Intelligence and Intelligent Informatics, ISCI 2011, September 15-17, 2011, Floriana, Malta, pag. 143-148, ISBN 978-1-4577-1859-5, IEEE Catalog Number: CFP 1136C-CDR, <a href="http://www.trivent.hu/ISCI2011/index.php?p=invitation">http://www.trivent.hu/ISCI2011/index.php?p=invitation</a>, DBLP</p>
			<p><b>39.</b> 106. N. Popescu-Bodorin, <b>V.E. Balas</b>, I.M. Motoc, 8-<i>Valent Fuzzy Logic for Iris Recognition and Biometry</i>, 5<sup>th</sup> International Symposium on Computational Intelligence and Intelligent Informatics, ISCI 2011, September 15-17, 2011, Floriana, Malta, pag. 149-154, ISBN 978-1-4577-1859-5, IEEE Catalog Number: CFP 1136C-CDR, <a href="http://www.trivent.hu/ISCI2011/index.php?p=invitation">http://www.trivent.hu/ISCI2011/index.php?p=invitation</a>, DBLP</p>
		312,94	
	TOTAL ISI	741,856	
A2.3. 1	Proprietate intelectuala brevete de inventie, certificate ORDA Internationale		Nu

A2.3. 1	Proprietate intelectuala brevete de inventie, certificate ORDA Nationale		Nu
A2.4. 1.1	Granturi/proiecte castigate prin competitie Director/Responsabil International	20	<p>1. <b>Project no.</b> 015942, <b>Project acronym</b> CEC IST NET, FP 6, 2005-2006.  <b>Project title</b> SUPPORT TO ORGANISATIONS FROM THE CENTRAL AND EASTERN EUROPEAN COUNTRIES, Thematic Priority: Information Society Technologies Deliverable D 4.1.8 : NATIONAL MAPPING REPORT for ROMANIA, 20 April 2006,  <b>Director Stiintific din partea UAV – Valentina E. Balas</b>  <a href="http://www.euroqualityfiles.net/ceclistnet/mapping/Mapping_Report_on_IST_2006_Romania.pdf">http://www.euroqualityfiles.net/ceclistnet/mapping/Mapping_Report_on_IST_2006_Romania.pdf</a></p> <p>2. <b>Grant Internațional – NSF Awards ENG-1047778 and ENG-1047714 – Collaborative Research</b> - oferit de Georgia Institute of Technology, School of Materials Science and Engineering, Atlanta, Georgia, USA, WIRES 2011 (Women's International Research Engineering Summit), Pathways to International Collaborations, 30 Martie - 2 Aprilie 2011, <b>Sef de program - Valentina E. Bălaș, 3000 \$,</b> <a href="http://wires.gatech.edu/main.php">http://wires.gatech.edu/main.php</a>, <a href="http://www.wires.gatech.edu/committee.php">http://www.wires.gatech.edu/committee.php</a>, <a href="http://wires.gatech.edu/resources/WIRES2-program.pdf">http://wires.gatech.edu/resources/WIRES2-program.pdf</a>.</p> <p>3. <b>Consilier pentru grantul Development of decision support framework for target detection to assist the operator to take optimal decision based on outputs from multiple sensors</b>, la <b>University South Australia, Adelaide, 2011, 100.000\$, director proiect Prof. Lakhmi C. Jain.</b></p> <p>4. <b>Grant FP 7, Call FP7-ICT-2013-11 - “big DAta Flow NExt generation applications” – DAFNE,</b>  Type of funding scheme: <i>Large-scale integrating project (IP)</i>  Work programme area addressed: <i>Objective ICT-2013.4.2 “Scalable data analytics”</i>  Target outcome: <i>“Scalable algorithms, software frameworks, visualization”</i>, Name of the coordinating person: Prof Veljko MILUTINOVIC, Participanti – 42 echipe,  <i>Quality Informed Superresolution for Iris Recognition, Coordonator V: Valentina E. Bălaș</i>, membru Ma Marius M. Bălaș, și Coordonator t University: Konstantinos Sirlatzis,  <i>Proiect depus in 16 aprilie 2013 – în competiție.</i></p> <p>5. <b>10 travel granturi a cate 3000 EURO fiecare pentru sustinerea de conferinte invitate in Japonia, Taiwan, China, India, Singapore.</b></p>

A2.4. 1.2	Granturi/proiecte castigate prin competitie Director/Responsabil National	250	<b>25 de proiecte realizate la CCSIT Vagoane Arad in calitate de <u>șef de proiect</u> pentru partea electrică/electronica.</b> <b>1.</b> Proiect obținut 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. <u>Sef de program</u> - V. E. Bălaș, colaborator – Consiliul Județean Arad, Centrul Cultural. Valoare: 2.000 RON. <b>2.</b> Proiect obținut prin competiție: Organizarea Școlii de Vară – „Soft Computing” – ediția a III-a, cu participare internațională, în limba engleză. August 2004. Universitatea „Aurel Vlaicu” din Arad. <u>Sef de program</u> - V. E. Bălaș, colaborator – Consiliul Județean Arad, Centrul Cultural. Valoare: 2.500 RON. <b>3.</b> Proiect obținut prin competiție: Organizarea Școlii de Vară – „Soft Computing” – ediția a IV-a, cu participare internațională, în limba engleză. Iulie 2005, Dispozitia 228/18.05 2005, Universitatea „Aurel Vlaicu” din Arad. <u>Sef de program</u> - V. E. Bălaș, colaborator – Consiliul Județean Arad, Centrul Cultural. Valoare: 8.000 RON. <b>4.</b> Proiect obținut prin competiție: Organizarea Școlii de Vară – „Soft Computing” – ediția a V-a, cu participare internațională, în limba engleză. Iulie 2006. Universitatea „Aurel Vlaicu” din Arad, <u>Sef de program</u> - V. E. Bălaș, colaborator – Consiliul Județean Arad, Centrul Cultural. Valoare: 3.000 RON. <b>5.</b> Contract de cercetare: Dotare laborator automatizari cu Echipament Mitsubishi PLC, septembrie 2007, Universitatea „Aurel Vlaicu” din Arad, Responsabil de contract - Valentina E. Bălaș, 1600 EURO <b>6.</b> Proiect POSDRU/86/1.2/S/57748 "Program strategic pentru promovarea inovării în servicii prin educație deschisă, continuă- INSEED" - un parteneriat de colaborare pentru asigurarea de competențe necesare absolvenților care vor activa în sisteme de servicii din diferite sectoare, și pentru promovarea inovării serviciilor, ianuarie 2013, Coordonator Universitatea Politehnica Bucuresti, <u>Responsabil UAV și expert pe termen scurt</u> – Valentina E. Bălaș. <b>7.</b> Proiect Parteneriate PCCA 2013, PN-II-PT-PCCA-2013-4-0619, Sesizarea și Identificarea fără fir în Sanatate, SISAN, Coordonator Universitatea Politehnica București, 2.500.000 Lei, <u>Coordonator din partea UAV</u> – Valentina E. Bălaș, Proiect depus în 15 iunie 2013 – în competiție.
A2.4. 2.1	Granturi/proiecte castigate prin competitie Membru în echipa Internațională	12	<b>1.</b> Program Internațional, Proiecte de Cooperare Bilaterală/Multilaterală, Programul: Capacități /Modul III, Cooperare Bilaterală între România și Bulgaria, Titlu: "Electronic Health Records for the Next Generation Medical Decision Support in Romanian and Bulgarian National Healthcare Systems", Acronym: <i>NextGenElectroMedSupport</i> , 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, Membri

		28	/cercetători în echipă: <b>Valentina E. Bălaș, Marius M. Bălaș, august 2010-august 2012.</b>  2. Program Internațional, <b>Planul Național pentru Cercetare Dezvoltare și Inovare 2007-2013-PN II, Capacități /Modul III, Proiecte de Cooperare Bilaterală/Multilaterală</b> , Cooperare Bilaterală între România și Slovacia Titlu: “ <b>Hybrid Medical Complex Systems</b> ”, Acronim: ComplexMediSys CO: Universitatea Petru Maior din Targu Mureș CO: Academia Slovacă de Științe, Bratislava Directori. Ladislav Hluchý (Slovacia) și Barna Iantovics (Romania) Membri /cercetători în echipă: <b>Valentina E. Bălaș, Marius M. Bălaș, ianuarie 2011-ianuarie 2013.</b>  3. <b>Grant FP 7, Call FP7-ICT-2013-11 - “big DAta Flow NExt generation applications” – DAFNE,</b> Type of funding scheme: <i>Large-scale integrating project (IP)</i> Work programme area addressed: <i>Objective ICT-2013.4.2 “Scalable data analytics”</i> Target outcome: “ <i>Scalable algorithms, software frameworks, visualization</i> ”, Name of the coordinating person: Prof Veljko MILUTINOVIC, Participanți – 42 echipe, <i>Cumulative Burst Readout Multiple Exposure CMOS Image Sensor</i> , <b>Coordonator UAV:</b> Marius M. Bălaș, membru Valentina E. Bălaș și Coordonator <i>Politechnika Krakowska, Poland</i> : Piotr Kulczycki <b>Proiect depus în 16 aprilie 2013 – în competiție.</b>
A2.4. 2.2	Granturi/proiecte castigate prin competitie Membri în echipa Naționale	2	1. <b>Grant CNCSIS „Cercetări pentru implementarea strategiilor bazate pe logica fuzzy și rețele neuronale destinate detecției și diagnosticării defectelor, cu aplicație la sistemele de conducere a acționărilor electrice”</b> . Iulie 2004. Executant principal: Universitatea „Politehnica” Timișoara. <b>Responsabil UAV - V. E. Bălaș</b> . Valoare: 800 EURO.  2. <b>Grant PN – II WE Cod CNCSIS: 47</b> , Contract de cofinanțare cu Autoritatea Națională pentru Cercetarea Științifică Nr. 316 / 09.04.2008, Workshop Exploratoriu „ <i>De la limbaj natural la soft computing: noi paradigme ale inteligenței artificiale</i> ”, Responsabil Institutul de Cercetări pentru Inteligența Artificială al Academiei Romane – Acad. Dan Ioan Tufiș, 30.000 Ron, <b>Colaborator – Valentina E. Bălaș</b> , <a href="http://www.cnccs.ro/PNCDI%20II/Idei/2008/W_Exploratorie/rezultate%20finale_aplicatii%20depuse%20pana%20la%2031%20martie%202008_pt%20site.pdf">http://www.cnccs.ro/PNCDI%20II/Idei/2008/W_Exploratorie/rezultate%20finale_aplicatii%20depuse%20pana%20la%2031%20martie%202008_pt%20site.pdf</a>  3. <b>POSDRU/89/1.5/S/56287</b> , <i>Programe postdoctorale în avangarda cercetării de excelență în Tehnologiile Societății Informaționale și dezvoltarea de produse și procese inovative</i> , Proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial Dezvoltarea Resurselor Umane 2007-2013, Proiect implementat de Institutul Național de Cercetare-Dezvoltare pentru Textile și Pielarie – INCIDTP în parteneriat cu Academia de Studii

			Economice Bucureşti - Centrul de Cercetări Analize și Politici Regionale, Universitatea din Oradea și ASSOCIATION GROUPE ESSEC, <b>Membru al grupului țintă – Valentina E. Bălaș</b> , Activitatea 4 – Formarea și perfecționarea în cadrul programelor pilot de pregătire postdoctorală prin cursuri susținute de ESSEC Bussines School – Franța.
<b>TOT AL A2</b>		<b>1016,41</b>	
<b>A3.1. 1</b>	Citari in carti, reviste si volume ale unor manifestari stiintifice Carti ISI	<b>91,7</b>	<b>33 citări – 97,1 puncte</b>
<b>A3.1. 2</b>	Citari in carti, reviste si volume ale unor manifestari stiintifice <b>BDI</b>	<b>78,8</b>	<b>56 citări – 78,8 puncte</b>
<b>A3.2.1</b>	Prezentări invitate în plenul unor manifestări științifice internaționale și Profesor invitat	<b>2007</b>  <b>10</b>  <b>2008</b>  <b>10</b>  <b>2009</b>  <b>10</b>	<p><b>2007</b></p> <ol style="list-style-type: none"> <li>1. Conferință invitată, “<i>Design of Intelligent Information Systems: Reasoning and Practical Applications</i>” - <b>Valentina E. Bălaș</b> - International Workshop on “System Science and Engineering”, 2<sup>nd</sup> November 2007, Taipei, Taiwan, Department of Electrical Engineering, National Taiwan University of Science and Technology <a href="http://140.118.107.57/SSE/SSE_workshop.htm">http://140.118.107.57/SSE/SSE_workshop.htm</a>. NTUST ocupa locul 9/111 universități din Taiwan (2012).</li> </ol> <p><b>2008</b></p> <ol style="list-style-type: none"> <li>2. Conferință invitată, “<i>The Educational Aspects of the Fuzzy-Interpolative Systems</i>” <b>Valentina E. Bălaș</b> și Marius M. Bălaș la la 7th International Conference on Global Research and Education, Inter-academia, 15-18 September, 2008, Pecs, Hungary, <a href="http://www.trivent.hu/IA2008/Program.html">http://www.trivent.hu/IA2008/Program.html</a>.</li> </ol> <p><b>2009</b></p> <ol style="list-style-type: none"> <li>3. Conferință invitată, “<i>Automation and Intelligent Systems – research program in Aurel Vlaicu University</i>”- <b>Valentina E. Bălaș</b> la WIRES 2009 – Women’s International Research Engineering Summit, Connecting Women and Completing the Circuit of International Research Collaboration, June 2-4, <b>Barcelona, Spain</b>, pag. 39. <a href="http://www.wires.gatech.edu/">http://www.wires.gatech.edu/</a></li> </ol>

			<a href="http://www.wires.gatech.edu/resources/program_and_participant_directory.pdf">http://www.wires.gatech.edu/resources/program_and_participant_directory.pdf</a> .
10			<p>4. Conferință invitată, “Fuzzy Techniques for Sensors” - <b>Valentina E. Bălaș</b> în Recent Advances in Fuzzy Systems, Proceedings of the 10th WSEAS International Conference on Fuzzy Systems (FS '09), <b>Praga, Cehia</b>, March 23-25, <b>2009</b>, 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, <a href="http://www.wseas.us/e-library/conferences/2009/prague/FUZZY/FUZZY00.pdf">http://www.wseas.us/e-library/conferences/2009/prague/FUZZY/FUZZY00.pdf</a>.</p>
10			<p>5. Conferință invitată, “World knowledge for sensors by internal models and fuzzy techniques” - <b>Valentina E. Bălaș</b> la Universitatea din Gyor – Szechenyi Istvan Egyetem, 23 Martie <b>2009</b>, <b>Gyor, Ungaria</b>.</p>
		<u>2010</u>	
10			<p>6. Conferință invitată “The Passive Greenhouse” – <b>Valentina E. Bălaș</b> la International Conference on System Science, Engineering <b>ICSEM 2010</b>, 12-14 November 2010, <b>Yichang, China</b>, <a href="http://www.sem-conf.org/10.html">http://www.sem-conf.org/10.html</a>.</p>
10			<p>7. Conferinta invitată, “A Sustainable Agricultural System: The Passive Greenhouse” - <b>Valentina E. Bălaș și Marius M. Bălaș</b> la National Kaohsiung University of Applied Sciences, <b>Kaohsiung, Taiwan</b>, 09.11.2010, <b>KUAS ocupa locul 26/111 universități din Taiwan (2012)</b>.</p>
		<u>2011</u>	
10			<p>8. Conferință invitată “Fuzzy Methodologies and Applications in Transportation” - <b>Valentina E. Bălaș</b> la <b>FEIT 2011</b>, 2011 International Joint Conference on Fuzzy Engineering and Intelligent Transportation <b>Xi'an, China 10-11, December 2011</b>, <a href="http://news.chd.edu.cn/content/content_16450.php">http://news.chd.edu.cn/content/content_16450.php</a>.</p>
10			<p>9. Conferință invitată “International Collaboration on Fuzzy Control and Smart Sensors in Greenhouses” - <b>Valentina E. Bălaș</b> la <b>WIRES 2011</b> (Women's International Research Engineering Summit), 30 Martie - 2 Aprilie 2011, <b>Orlando, USA</b>, <a href="http://wires.gatech.edu/main.php">http://wires.gatech.edu/main.php</a>, <a href="http://wires.gatech.edu/resources/WIRES2-program.pdf">http://wires.gatech.edu/resources/WIRES2-program.pdf</a>, <a href="http://wires.gatech.edu/committee.php">http://wires.gatech.edu/committee.php</a> .</p>
		<u>2012</u>	
10			<p>10. Conferință invitată – “New Research Directions Using Soft Computing Techniques” - <b>Valentina E. Bălaș</b> la AISC 2012 – Artificial Intelligence and Soft Computing, On the eve of 150th</p>

		<p>Birth anniversary of Pt. Madan Mohan Malviya Ji, founder of BHU, Varanasi and 25th year of Graduation of Alumni of Department of Computer Engineering, 7-9 Decembrie 2012, <b>IIT (BHU) Varanasi, India</b>, <a href="http://iitbhu.ac.in/conferences/cse/aisc2012/">http://iitbhu.ac.in/conferences/cse/aisc2012/</a></p> <p><b>IIT BHU Varanasi ocupă locul 6 în India între Institutele de inginerie.</b></p>
10		<p><b>11.</b> Conferință invitată - <i>New Advanced Computational Intelligence Paradigms. Methodologies and Applications</i>, <b>Valentina E. Bălaș</b> la Workshop on Computational Intelligence in Honor of László T. Kóczy on his 60<sup>th</sup> Birthday, November 22, 2012, <b>Obuda University, Ungaria</b>.</p>
10		<p><b>12.</b> Conferință invitată – “<i>Soft Computing-Based Research in “Aurel Vlaicu” University of Arad Methodologies and Applications</i>” - <b>Valentina E. Bălaș</b> la The 2012 International Conference on Information Management, Innovation Management and Industrial Engineering, <b>ICIII2012</b>, 20-21 Oct. 2012, <b>Sanya, Hainan, China</b>, <a href="http://www.iciii-conf.org/">http://www.iciii-conf.org/</a> <a href="http://www.iciii-conf.org/keynotes.htm">http://www.iciii-conf.org/keynotes.htm</a> .</p>
10		<p><b>13.</b> Conferință invitată – “<i>Advanced Intelligent Computing Methodologies and Applications</i>” - <b>Valentina E. Bălaș</b> la The Six International Conference on Genetic and Evolutionary Computing, <b>ICGEC 2012</b>, 25-28 August 2012, <b>Kitakyushu, Japan</b>, <a href="http://bit.kuas.edu.tw/~icgec12/keynote.html">http://bit.kuas.edu.tw/~icgec12/keynote.html</a>.</p>
10		<p><b>14.</b> Prelegere invitată - "Computational Intelligence-Based Research in Aurel Vlaicu University of Arad" - <b>Valentina E. Bălaș</b> la Nanyang Technological University of Singapore, NTU, School of Electrical &amp; Electronic Engineering, Infinitus, Infocomm Centre of Excellence, 13 ianuarie, 2012, Singapore <a href="http://www.infinitus.eee.ntu.edu.sg/Events/Pages/2012Seminars.aspx">http://www.infinitus.eee.ntu.edu.sg/Events/Pages/2012Seminars.aspx</a> <a href="http://www.infinitus.eee.ntu.edu.sg/Pages/Print.aspx?page=http://www.infinitus.eee.ntu.edu.sg/Events/Pages/2012Seminars.aspx">http://www.infinitus.eee.ntu.edu.sg/Pages/Print.aspx?page=http://www.infinitus.eee.ntu.edu.sg/Events/Pages/2012Seminars.aspx</a>.</p> <p><b>NTU ocupă locul 11 pe Asia și locul 86 în clasamentul mondial al celor mai bune universități (2012-2013).</b></p>
10		<p><b>15.</b> Seminar invitat – “<i>Research Directions using Intelligent Paradigms in “Aurel Vlaicu” University of Arad</i>” - <b>Valentina E. Bălaș</b> la National University of Singapore, NUS, Faculty of Engineering, Department of Electrical and Computer Engineering, Singapore, 12, ianuarie, 2012, Singapore, <a href="http://www.ece.nus.edu.sg/events/seminars.html">http://www.ece.nus.edu.sg/events/seminars.html</a> <a href="http://www.ece.nus.edu.sg/events/seminars/se-mdetails2611new.asp?sid=185">http://www.ece.nus.edu.sg/events/seminars/se-mdetails2611new.asp?sid=185</a>.</p> <p><b>NUS ocupă locul 2 pe Asia și locul 29 în clasamentul mondial al celor mai bune universități (2012-2013).</b></p>

			<u>2013</u>
	10		<p><b>16.</b> Conferință invitată “<i>New Advanced Intelligence Paradigms</i>” - <b>Valentina E. Bălaș</b> la ICGITS 2013 – International Conference on Global Innovations in Technology and Sciences, 4-6 April 2013, Kottayam, India,  <a href="http://saintgits.org/main/sie/default.asp">http://saintgits.org/main/sie/default.asp</a> ;  <a href="http://saintgits.org/main/sie/Decennial.asp">http://saintgits.org/main/sie/Decennial.asp</a>.</p>
	10		<p><b>17.</b> Seminar invitat “<i>Recent advances in soft computing applications</i>” – <b>Valentina E. Bălaș</b>, la College of Information Science and Engineering, Ritsumeikan University, Shiga, Japan, 11-14 Septembrie 2013.</p>
	<b>TOTAL</b>	<b>170</b>	
A3.2.2	Prezentări invitate în plenul unor manifestări științifice naționale și Profesor invitat	<u>2007</u> 5 1. Conferință invitată, "Pionierii informaticii românești" - <b>Valentina E. Bălaș</b> la simpozionul, 50 de ani de la apariția primului calculator românesc (CIFA-1, 1957) și la 85 de ani de la nașterea creatorului său, Victor Toma din 8 decembrie 2007, <b>Universitatea Agora Oradea</b> , <a href="http://www.bihon.ro/stiri/oradea-bihor/articol/simpozion-dedicat-pionierilor-informaticii/cn/news-20071205-06422704">http://www.bihon.ro/stiri/oradea-bihor/articol/simpozion-dedicat-pionierilor-informaticii/cn/news-20071205-06422704</a> .  <u>2008</u> 5 2. Conferință invitata, “ <i>Constant Time to Collision Platoons</i> ” – <b>Valentina E. Bălaș</b> 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.  3. Conferință invitată “ <i>World Knowledge for Control Applications by Fuzzy-Interpolative Systems</i> ” – Marius M. Bălaș și <b>Valentina E. Bălaș</b> 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.  <u>2009</u>	

		<b>5</b>	<p>4. Conferință invitată, “A Sustainable Feeding System for our Future: the Passive Greenhouse” - <b>Valentina E. Bălaș și Marius M Bălaș</b> la, 11<sup>th</sup> WSEAS International Conference os Sustainability in Science Engineering (SSE '09), Timișoara, România, May 27-29, 2009, pag. 15, <a href="http://www.wseas.us/conferences/2009/timisoara/sse/Plenary5.htm">http://www.wseas.us/conferences/2009/timisoara/sse/Plenary5.htm</a>.</p>
	<b>TOTAL</b>	<b>20</b>	
A3.3.1	Membru în colectivele de redacție sau comitete științifice ale revistelor, organizare de manifestări științifice internaționale indexate ISI	<b>310</b>	<p><b>Selectie</b></p> <p><i>Guest Editor la Journal of Intelligent and Fuzzy Systems, Editor Reza Langari, USA, Volume 19, Number 1 / 2008, Special Issue on Soft Computing and Applications, IOS Press, ISSN 1064-1246 (Print) 1875-8967 (Online), pp. 1-2, <a href="http://iospress.metapress.com/content/q0h6213h3k20/">http://iospress.metapress.com/content/q0h6213h3k20/</a>, ISI Journal (impact factor: 0,649).</i></p> <p><b>Co-Guest Editor</b> (Chee Peng Lim, Lakhmi C. Jain, Ngoc Thanh Nguyen and Valentina E. Balas) pentru Special Issue la <b>Fuzzy Optimization and Decision Making</b>, A Journal of Modeling and Computation Under Uncertainty, ISSN: 1568-4539 (Print) 1573-2908 (Online), Publisher: <b>Springer Netherlands</b>, 2008, Volume 7, Number 3/ September 2008, Special Issue: Advances in Computational Intelligence Paradigms and Applications, pages 215-217, <a href="http://link.springer.com/article/10.1007%2Fs10700-008-9031-4">http://link.springer.com/article/10.1007%2Fs10700-008-9031-4</a>, <b>ISI Journal</b>.</p> <p><b>Co-Guest Editor</b>, Ngoc Thanh Nguyen, Chee Peng Lim, Lakhmi C. Jain, Valentina E. Balas la Journal of Intelligent and Fuzzy Systems, Editor Reza Langari, USA, Volume 20, Issue 1,2 April 2009, Special Issue: Theoretical advances and applications of intelligent paradigms, IOS Press, ISSN 1064-1246 (Print) 1875-8967 (Online), Guest Editorial: <b>Theoretical advances and applications of intelligent paradigms</b> pp. 1-2, <b>ISI Journal</b> (impact factor: 0,649).</p> <p><b>Guest Editors</b>, Valentina E. Balas, Ioan Dzitac, Horia-Nicolai Teodorescu - INTERNATIONAL JOURNAL of COMPUTERS, COMMUNICATIONS &amp; CONTROL, ISSN 1841-9836, E-ISSN 1841-9844 . Year: 2011 Volume: 6 Number: 3 (September), This Issue is Dedicated to Professor Lotfi A. Zadeh on the Occasion of his 90th Birthday, Agora University Editing House, ISSN 1841-9836, <b>ISI Journal</b>.</p> <p>Associat Editor la <b>Acta Polytechnica Hungarica</b>, Journal of Applied Sciences, ISSN 1785-8860, Hungary, <a href="http://www.uni-obuda.hu/journal/">http://www.uni-obuda.hu/journal/</a>, <b>ISI Journal</b>, IF=0,284/2010.</p> <p><b>Guest Editor la Special Issue on Fuzzy Engineering and Intelligent Transportation</b> (Guest Editors : Prof. Xiangmo Zhao, Prof. Valentina Emilia Balas and Prof. Fuqian Shi), Internationl Journal of INFORMATION (INFORMATION-TOKYO), Editing Asian Information-Science-Life (NOVA Sci. Pub., USA), <a href="http://www.information-iii.org/information_journal.html">http://www.information-iii.org/information_journal.html</a>, Vol.15, No.6, June, 2012, <a href="http://www.information-iii.org/abs_e2.html#No6-2012">http://www.information-iii.org/abs_e2.html#No6-2012</a>, <b>ISI Journal</b>, Impact Factor (IF) = 0.25 (2011).</p> <p><b>Guest Editor la Special Issue Recent advances in soft computing: Theories and applications</b>, Journal of Intelligent &amp; Fuzzy Systems, (Guest Editors: Chee Peng Lim, Valentina Emilia Balas and Quoc Do), <a href="http://iospress.metapress.com/content/56qw7161m6573240/fulltext.pdf">http://iospress.metapress.com/content/56qw7161m6573240/fulltext.pdf</a>, <b>ISI Journal</b>.</p> <p><b>Guest Editor la Soft Computing Applications</b>, Proceedings of the 5th International Workshop Soft Computing Applications (SOFA 2012) Series: <b>Advances in Intelligent Systems and Computing</b>, Vol. 195</p>

		<p>Balas, V.E.; Fodor, J.; Várkonyi-Kóczy, A.R.; Dombi, J.; Jain, L.C. (Eds.) 2013 ISBN 978-3-642-33941-7, ISI Proceedings.</p> <p>Lead Guest Editor la <b>Mathematical Problems in Engineering</b>, ISSN: 1024-123X (Print), ISSN: 1563-5147 (Online), Fuzzy Computing and Intelligent Transportation, <a href="http://www.hindawi.com/journals/mpe/si/702023/cfp/">http://www.hindawi.com/journals/mpe/si/702023/cfp/</a>, <a href="http://www.hindawi.com/journals/mpe/">http://www.hindawi.com/journals/mpe/</a>, <b>ISI Journal</b>, IF = 0,548.</p> <p><b>Organizator și General Co-Chair</b> al Workshopului Internațional IEEE – SOFA 2005, 27-30 august 2005, Arad –Szeged,  <a href="http://www.trivent.hu/IEEESOFA2005/index.html">http://www.trivent.hu/IEEESOFA2005/index.html</a> (categoria C în ARC)</p> <p>Session Chair la Plenary Session a Prof. Lotfi A. Zadeh at IEEE International Workshop SOFA 2005,  <a href="http://www.trivent.hu/IEEESOFA2005/07_tentativeprogram.html">http://www.trivent.hu/IEEESOFA2005/07_tentativeprogram.html</a></p> <p><b>Organizator și General Co-Chair</b> la The 2<sup>nd</sup> IEEE International Workshop on Soft Computing Applications - SOFA 2007, 21-23 August 2007, Gyula -Hungary / Oradea – Romania, <a href="http://www.trivent.hu/SOFA2007/">http://www.trivent.hu/SOFA2007/</a> (categoria C în ARC)</p> <p>Organizator al Seminarului <i>Logistics Theory and Applications</i> de la Arad cu participarea Prof. Laszlo T. Koczy, May 2008.</p> <p>Co-Chair impreuna cu Lotfi A. Zadeh la conferința invitată „Mind Your Words! You Might Convey What You Wouldn't Like To” a Acad. Dan Tufis, la EWNLC, Băile Felix Spa, Romania, 15-17 May 2008,  <a href="http://www.iccc.univagora.ro/iccc-2008/">http://www.iccc.univagora.ro/iccc-2008/</a></p> <p>Organizator și Co-Chair al unei Special Session la KES 2008: Novel Foundation and Applications of Intelligent Systems, 12th International Conference on Knowledge-Based and Intelligent Information &amp; Engineering Systems, 3-5 September 2008, Zagreb, Croatia, <a href="http://kes2008.kesinternational.org/">http://kes2008.kesinternational.org/</a>;  <a href="http://kes2008.kesinternational.org/KES2008-program.pdf">http://kes2008.kesinternational.org/KES2008-program.pdf</a></p> <p><b>Organizator și General Co-Chair</b> la The 3<sup>rd</sup> IEEE International Workshop on Soft Computing Applications - SOFA 2009, 29 July-1 August 2009, Szeged –Hungary/Arad – Romania,  <a href="http://www.trivent.hu/2009/sofa2009/">http://www.trivent.hu/2009/sofa2009/</a> (categoria C în ARC)</p> <p>Chair la Plenary Session a Prof. Jun Wang – Hong Kong - Neurodynamic Optimization with Its Application for Model Predictive Control, la The 3<sup>rd</sup> IEEE International Workshop on Soft Computing Applications - SOFA 2009, 29 July-1 August 2009, Szeged –Hungary/Arad – Romania,  <a href="http://www.trivent.hu/2009/sofa2009/">http://www.trivent.hu/2009/sofa2009/</a> (categoria C în ARC)</p> <p>Chair la Plenary Session a Prof. Pamela McCauley Bush - USA - A Research Based Approach to Predictive Simulation in Disaster Management - la The 3<sup>rd</sup> IEEE International Workshop on Soft Computing Applications - SOFA 2009, 29 July-1 August 2009, Szeged –Hungary/Arad – Romania, <a href="http://www.ieee-sofa2009.org/">http://www.ieee-sofa2009.org/</a></p> <p>Program Committee Co-Chair la ISCHII'09, 4<sup>th</sup> International Symposium on Computational Intelligence and Intelligent Informatics, October, 21 – 25, 2009, Egypt,  <a href="http://www.trivent.hu/ISCHII2009/index.php?p=chairs">http://www.trivent.hu/ISCHII2009/index.php?p=chairs</a></p> <p>Chair al Workshop on Applied Computational Intelligence, organizat in cadrul ISCHII'09 Proceedings, 4<sup>th</sup> International Symposium on Computational Intelligence and Intelligent Informatics, 21-25 October 2009, Egypt, 24 October 2009.</p> <p>Technical Committee la KES Focus Group on Intelligent Decision Technologies, 2010, KES International, <a href="http://www.kesinternational.org/idt-focus.php">http://www.kesinternational.org/idt-focus.php</a>, (categoria B în ARC)</p> <p><b>Organizator și General Co-Chair</b> la The 4<sup>th</sup> IEEE International Workshop on Soft Computing Applications - SOFA 2010, 15-17 July 2010, Arad – Romania, <a href="http://trivent.hu/2010/sofa/">http://trivent.hu/2010/sofa/</a>, (categoria C în ARC)</p>
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			<p>Publicity Co-Chair la IEEE International Conference on Fuzzy Systems 2011 - FUZZ-IEEE 2011, June 27-June 30, 2011, International Convention Center (TICC), Taipei, Taiwan, <a href="http://www.fuzz-ieee2011.org">http://www.fuzz-ieee2011.org</a>, (categoria A în ARC)</p> <p>Organizator si Co-Chair la Sesiunea Speciala: SS32: Special Session on Adaptive Fuzzy Logic Control la IEEE International Conference on Fuzzy Systems 2011 - FUZZ-IEEE 2011, June 27-June 30, 2011, International Convention Center (TICC), Taipei, Taiwan, <a href="http://www.fuzz-ieee2011.org">http://www.fuzz-ieee2011.org</a>; <a href="http://fuzzieee2011.nutn.edu.tw/download/FUZZ-IEEE%202011-SS32-12082010.pdf">http://fuzzieee2011.nutn.edu.tw/download/FUZZ-IEEE%202011-SS32-12082010.pdf</a>, (categoria A în ARC)</p> <p>Organizator si Co-Chair la Sesiunea Speciala: SS33: Special Session on Fuzzy and Paraconsistent Intelligent Systems la IEEE International Conference on Fuzzy Systems 2011 - FUZZ-IEEE 2011, June 27-June 30, 2011, International Convention Center (TICC), Taipei, Taiwan, <a href="http://www.fuzz-ieee2011.org">http://www.fuzz-ieee2011.org</a>; <a href="http://www.fuzz-ieee2011.org/download/FUZZ-IEEE%202011-SS33-12082010.pdf">http://www.fuzz-ieee2011.org/download/FUZZ-IEEE%202011-SS33-12082010.pdf</a>, (categoria A în ARC)</p> <p>Organizator si Co-Chair la Sesiunea Speciala Computational Intelligence Methods to Benefit Society, KES 2011 – 15<sup>TH</sup> INTERNATIONAL CONFERENCE ON KNOWLEDGE-BASED AND INTELLIGENT INFORMATION &amp; ENGINEERING SYSTEMS: 12-14 SEPTEMBER 2011, KAISERSLAUTERN, GERMANY, (categoria B în ARC)</p> <p><a href="http://kes2011.kesinternational.org/cms/user/!Sdisplay.php">http://kes2011.kesinternational.org/cms/user/!Sdisplay.php</a>, <a href="http://kes2011.kesinternational.org/cms/userfiles/cfp-is02.pdf">http://kes2011.kesinternational.org/cms/userfiles/cfp-is02.pdf</a> (categoria B în ARC)</p> <p>Program Committee Co-Chair la 5<sup>th</sup> International Symposium on Computational Intelligence and Intelligent Informatics, ISCIII'11, September, 15 – 17, 2011, Floriana, Malta, <a href="http://www.trivent.hu/ISCIII2011/index.php?p=chairs">http://www.trivent.hu/ISCIII2011/index.php?p=chairs</a></p> <p>Co-organizator a unei Sesiuni Speciale New Directions in Fuzzy Adaptive Control, Session organizers Valentina E. Balas and Tsung-Chih Lin FUZZ-IEEE'2012, at WCCI'2012, Brisbane, Australia, June 10-15, 2012, <a href="http://www.uav.ro/files/call/Special%20session.pdf">http://www.uav.ro/files/call/Special%20session.pdf</a>, (categoria A în ARC)</p> <p>Organizator si General Co-Chair la The 5<sup>th</sup> IEEE International Workshop on Soft Computing Applications - SOFA 2012, 22-24 August 2012, Szeged-Hungary, <a href="http://ieee-sofa2012.org/">http://ieee-sofa2012.org/</a>, (categoria C în ARC)</p> <p>Organizator al unei Sesiuni Speciale la FUZZ-IEEE 2013, 7-10 Iulie, 2013, Hyderabad, India, SS-24: New Trends in Fuzzy Adaptive Control, <a href="http://www.isical.ac.in/~fuzzieee2013/?q=node/73">http://www.isical.ac.in/~fuzzieee2013/?q=node/73</a> (categoria A în ARC)</p> <p>Publication and Proceedings Chair la 5<sup>th</sup> International Conference on Computers Communications and Control, ICCCC 2014, Băile Felix, Oradea, România, May 7-9, 2014, <a href="http://univagora.ro/icccc2014/">http://univagora.ro/icccc2014/</a></p>
A3.3.2	Membru în colectivele de redacție sau comitete științifice ale revistelor, organizare de manifestări științifice internaționale indexate	312	<p><u>Selectie</u></p> <p><b>Membră în Editorial Board la International Journal of Intelligent Decision Technologies</b>, ISSN: 1872-4981, IOS Press, Nieuwe Hemweg 6B, 1013 BG Amsterdam, The Netherlands <a href="http://www.iospress.nl/loadtop/load.php?isbn=18724981">http://www.iospress.nl/loadtop/load.php?isbn=18724981</a>, 2007-2011, 2013 - BDI indexed.</p> <p><b>Membră în Editorial Review Board la UBICC journal (the Ubiquitous Computing and Communication Journal)</b>, 2007, Volume 4, ISSN 1992-8424. 2008</p> <p><b>Editor Asociat la Journal of Computer Science and Control Systems (JCSCS)</b>, P-ISSN: 1844-6043 <a href="http://electroinf.uoradea.ro/index.php/editorial-board.html">http://electroinf.uoradea.ro/index.php/editorial-board.html</a>, din 2008, Revista</p>

<p><b>BDI</b></p>	<p>CNCSIS B<sup>+</sup>.</p> <p><b>Membră în Editorial Advisory Board la Computational Intelligence and its Applications (COMIA)</b> Book Series-Information Science Publishing, USA, ISBN: 1935-3731  <a href="http://www.igi-global.com/book-series/computational-intelligence-its-applications-comia/37140#editorial-advisory-board">http://www.igi-global.com/book-series/computational-intelligence-its-applications-comia/37140#editorial-advisory-board</a>, 2008, BDI indexed.</p> <p><b>Co-Editor la Computational Intelligence Paradigms, Innovative Applications</b>, Series: <u>Studies in Computational Intelligence</u>, Vol. 137, Jain, L.C.; Sato-Ilic, M.; Virvou, M.; Tsihrintzis, G.A.; Balas, V.E.; Abeynayake, C. (Eds.), 2008, VIII, 282 p. 127 illus., Hardcover, ISBN: 978-3-540-79473-8, Springer, <a href="http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-540-79473-8">http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-540-79473-8</a>, DPLB (Computer Science Bibliograpy) indexed, ACM indexed.</p> <p><b>Co-Editor Șef la International Journal of Advanced Intelligence Paradigms (IJAIIP)</b>, ISSN (Online): 1755-0394 - ISSN (Print): 1755-0386, INTERSCIENCE PUBLISHER, <a href="http://www.inderscience.com/browse/index.php?journalCODE=ijaip">http://www.inderscience.com/browse/index.php?journalCODE=ijaip</a>, din 2008, INSPEC, SCOPUS, ACM, DBLP, ERA.</p> <p><b>Membră în Editorial Board la International Journal of Granular Computing, Rough Sets and Intelligent Systems (IJGCRSIS)</b>, ISSN (Online): 1757-2711 - ISSN (Print): 1757-2703, INTERSCIENCE PUBLISHER, din 2008, <a href="http://www.inderscience.com/jhome.php?jcode=ijgcrsis#edboard">http://www.inderscience.com/jhome.php?jcode=ijgcrsis#edboard</a>, DBLP, SCIRUS indexed.</p> <p><b>2009</b></p> <p><b>Co-Editor la Studies in Computational Intelligence</b>, Berlin: Springer 2009 – Vol. 196 - <i>Soft Computing Based Modeling in Intelligent Systems</i> 2009, Eds. Valentina Emilia Balas, Annamaria Varkonyi-Koczy, Janos Fodor, ISBN 978-3-642-00447-6, 206 pag. <a href="http://www.springer.com/engineering/book/978-3-642-00447-6">http://www.springer.com/engineering/book/978-3-642-00447-6</a>, SCOPUS, INSPEC, DBLP.</p> <p><b>Membră în Editorial Board la International Journal of Reasoning-based Intelligent Systems (IJRIS)</b> ISSN (Online): 1755-0564 - ISSN (Print): 1755-0556, INTERSCIENCE PUBLISHER, <a href="http://www.inderscience.com/jhome.php?jcode=ijris#edboard">http://www.inderscience.com/jhome.php?jcode=ijris#edboard</a>, 2009, SCOPUS, Compendex, SCIRUS indexed.</p> <p><b>Editor la International Journal of Digital Content Technology and its Applications (JDCTA)</b>, ISSN 1975- 9339, Korea, 2009, <a href="http://www.aicit.org/jdcta/home/editorial.html">http://www.aicit.org/jdcta/home/editorial.html</a>, indexata DBLP, EI COMPENDEX, INSPEC, SCOPUS.</p> <p><b>Guest Editor</b>, Chee Peng Lim, Lakhmi C. Jain , George A. Tsihrintzis, Maria Virvou, <b>Valentina Emilia Balas</b>, la <i>International Journal of Intelligent Defence Support Systems</i>, Volume 2, Number 2, 2009, Special Issue: Intelligent Modelling and Data Analysis Techniques, ISSN (Online): 1755-1595 - ISSN (Print): 1755-1587, <a href="http://www.inderscience.com/info/inarticletoc.php?jcode=ijidss&amp;year=2009&amp;vol=2&amp;issue=2">http://www.inderscience.com/info/inarticletoc.php?jcode=ijidss&amp;year=2009&amp;vol=2&amp;issue=2</a>, indexata DBLP, SCIRUS, ERA.</p> <p><b>Membră în Scientific Board la Acta Technica Napoensis</b>, Technical University of Cluj-Napoca, Romania, Faculty of Electronics, Telecommunications and Information Technology, Volume 50, Number 1, 2009, ISSN 1221 – 6542, BDI.</p> <p><b>Editor la AISS – Advances in Information Sciences and Services Sciences</b> (An International Journal of Research and Innovation), ISSN : 1976-3700, Korea, din 2009, <a href="http://www.aicit.org/aiiss/home/editorial.html">http://www.aicit.org/aiiss/home/editorial.html</a>, indexata SCOPUS, DBLP, INSPEC.</p>
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**Membră în Editorial Board la Journal of Computer Science & Systems Biology**, OMICS Publishing Group, USA, din 2009, ISSN: 0974-7230, <http://www.omicsonline.com/jcsbhome.php>, <http://www.omicsonline.com/EditorialboardJCSB.php>, indexata CrossRef, Google Scholar.

**Editor la Journal of Convergence Information Technology JCIT**, din 2009, ISSN : 1975-9320, <http://www.aicit.org/jcit/home/editorial.html> , AICIT - Advanced Institute of Convergence IT, Dongguk University, Korea, indexata SCOPUS, INSPEC, DBLP, SCIRUS.

**Editor la International Journal of Advancements in Computer Technology IJACT**, din 2009, ISSN: 2005-8039, AICIT - Advanced Institute of Convergence IT, Dongguk University, Korea, <http://www.aicit.org/ijact/home/editorial.html>, indexata SCOPUS, DBLP, INSPEC.

## **2010**

**Membră în Editorial Board la AIS - Advances in Information Sciences and Service Sciences**, ISSN 2093-1956, Human Pub, Human and Sciences Publications, 2010, <http://www.aicit.org/aiiss/home/editorial.html>, indexata SCOPUS, DBLP, INSPEC.

**Membră în Editorial Review Board of the International Journal of Energy Optimization and Engineering (IJEOE)**, ISSN: 2160-9500, IGI Global, 2010, <http://www.igi-global.com/Bookstore/TitleDetails.aspx?TitleId=47187> , indexata DBLP, INSPEC.

**Associat Editor la International Journal of System Dynamics Applications (IJSDA)**, ISSN: 2160-9772, IGI Global, 2010, <http://www.igi-global.com/bookstore/titledetails.aspx?TitleId=51803> , [www.igi-global.com/IJSDA](http://www.igi-global.com/IJSDA), indexata INSPEC, Google Scholar.

## **2011**

**Associat Co-Editor Șef la Agricultural Engineering Research Journal (AERJ)**, ISSN: 2218-3906, IDOSI (International Digital Organization for Scientific Information), Egypt, 2011, <http://www.idosi.org/aerj/board.htm>.

**Regional Editor Europe la International Journal of Computational Systems Engineering (IJCSysE)**, ISSN (Online): 2046-3405 - ISSN (Print): 2046-3391, Inderscience, 2011, <http://www.inderscience.com/browse/index.php?journalID=378>, indexata Google Scholar.

**Membră în Editorial Board la International Journal of Control Systems, Robotics and Industrial Automation**, ISSN 2240-1229, <http://www.internationalsar.org/journal2.html>.

**Membră în Editorial Board la American Journal of Intelligent Systems**, ISSN: 2165-8978TBD, Website: <http://journal.sapub.org/ajis>, <http://www.sapub.org/journal/editorialboard.aspx?journalid=1060>, indexata Index Copernicus, CrossRef, Google Scholar.

**Associate Editor la Cyber Journals: Multidisciplinary Journals in Science and Technology**, pentru Journal of Selected Areas in Robotics and Control (JSRC) ISSN 1925-2676, Canada, <http://www.cyberjournals.com/> , <http://www.cyberjournals.com/associates.html>.

## **2012**

**Editor la Electrical and Computer Engineering – Artificial Intelligence si Automation and Control Systems de la Central European Journal of Engineering**, ISSN: 1896-1541 (print version), ISSN: 2081-9927 (electronic version), Versita, Publisher: Versita, co-published with Springer Verlag, <http://versita.com/serial/ceje/>,

indexata SCOPUS, Google Scholar.

**Associat Editor** la International Journal of Nanotechnology and Molecular Computation (IJNMC), ISSN: 1941-6318, EISSN: 1941-6326, DOI: 10.4018/IJNMC, IGI Global, <http://www.igi-global.com/journal/international-journal-nanotechnology-molecular-computation/1117>, indexata INSPEC, DBLP, Google Scholar.

**Membră în Editorial Board la Journal of Mechanics Engineering and Automation**, ISSN:2159-5275, [http://www.davidpublishing.com/journals\\_info.asp?jid=713](http://www.davidpublishing.com/journals_info.asp?jid=713), BDI.

**Guest Editor** la Studies in Computational Intelligence, Berlin: Springer 2012 – Vol 417, “*New Concepts and Applications in Soft Computing*” 2012, Eds. Valentina Emilia Balas, Annamaria Varkonyi-Koczy, Janos Fodor, ISBN 978-3-642-28958-3, 278 pag. <http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-28958-3>.

**Membră în Editorial Board la Scientific Journal of Engineering (SJEng)**, <http://www.sjournals.com/index.php/SJEng/about/displayMembership/22b>, <http://www.sjournals.com/index.php/SJEng/about/editorialTeam>.

**2013**

**Guest Editor la International Journal of Advancements in Computing Technology**  
ISSN: 2005-8039, Special Issue 54 - 2012 the 2nd International Joint Conference on Fuzzy Computing and Intelligent Transportation, <http://www.aicit.org/IJACT/global/si.html?jname=IJACT#S54> (SCOPUS, INSPEC, DBLP).

**Membră în Editorial Board la Journal of Automation and Control Engineering, JOACE**, ISSN: 2301-3702, <http://www.joace.org/index.php?m=content&c=index&a=lists&catid=18>, indexat in INSPEC, Google Scholar.

**Editor la International Journal of Social Networking and Virtual Communities (Int J SocNet & Vircom)**, ISSN: 2252-8784, <http://iaesjournal.com/online/index.php/VirCom/about/editorialTeam>.

**Membră în Reviewer Panel la Environmental Geotechnics**, E-ISSN: 2051-803X, ICE Publishing, USA, <http://www.icevirtuallibrary.com/content/serial/envgeo>, <http://www.icevirtuallibrary.com/content/related/panel?pubId=envgeo>.

**Membră în Editorial Board la Archives of the Philosophy and History of Soft Computing**, International online journal, published by European Centre of research in Soft Computing, Spain, <http://docs.softcomputing.es/public/ArchivesJournal-Call-R.pdf>.

**Membră în Editorial Board la International Journal of Advanced Computer Science and Information Technology (IJACSIT)**, ISSN 2296-1739, Publisher Helvetic Editions, <http://elvedit.com/journals/IJACSIT/>, [http://elvedit.com/journals/IJACSIT/?page\\_id=32](http://elvedit.com/journals/IJACSIT/?page_id=32).

**Associate Editor la BIOINFO SOFT COMPUTING**, ISSN : 2249-2747 (Print), E-ISSN : 2249-2755 (Online), <http://www.bioinfopublication.org/journal.php?opt=azjou&jouid=BPJ0000211&detail=editorial#>, indexat CrossRef, Google Scholar.

**Membră în Editorial Board ca Member Board la secțiunea Engineering pentru SpringerPlus – Springer Open Journal**, ISSN: 2193-1801,

[http://www.springerplus.com/about/edboard.](http://www.springerplus.com/about/edboard)

Membră în Editorial Board la Journal of Information Technology & Software Engineering, ISSN: 2165- 7866, OMICS Publishing Group,  
<http://www.omicsgroup.org/journals/editorialboardJITSE.php>.

Membră în Editorial Board la International Journal on *Intelligent Decision Technologies (IDT)*, IOS Press, The Netherlands, ISSN 1872-4981, <http://www.iospress.nl/journal/intelligent-decision-technologies/>, din 2013.

Membră în Editorial Board la International Journal of Computer and Information Technologies (IJOCIT), <http://ijocit.org/index.php/editorial-board> din 2013

Organizator al Special Session *Soft Computing Based Modeling in Intelligent Systems*, <http://www.worldses.org/conferences/2006/croatia/fs/session2.htm> within 7th WSEAS International Conference on Fuzzy Systems Cravtat, Croatia, June 12-14, 2006, <http://www.worldses.org/conferences/2006/croatia/fs>

Organizator al Special Session *Soft Computing Applications*, <http://www.rasc2006.org.uk/> The 6th International Conference on Recent Advances in Soft Computing, RASC 2006, 10-12 July, 2006 Canterbury, University of Kent, UK.

Chair pentru două Special Sessions to RASC 2006

<http://www.rasc2006.org.uk/program.htm>

Chair la The 7th WSEAS International Conference on FUZZY SYSTEMS, Session: Fuzzy Systems and Applications AUTOMATION & INFORMATION (ICAI'06), Cavtat, Croatia, June 12-14 2006.

Program Committee Chair la International Conference on System Science, Engineering Design and Manufacturing Informatization, ICSEM 2010, 12-14 November 2010, Yichang, China, <http://www.sem-conf.org/committees.htm>

Co-Chair Session la ECIT 2010 - Neural Networks & Fuzzy Systems, 7-9 Octombrie 2010, Iasi, Romania,  
[http://www.iit.tuiasi.ro/ecit2010/documents/Program\\_ECIT\\_2010\\_22%20sept.pdf](http://www.iit.tuiasi.ro/ecit2010/documents/Program_ECIT_2010_22%20sept.pdf)

Conference Chair la International Joint Conference on Fuzzy Engineering and Intelligent Transportation FEIT 2011, Xi'an, China, 10-11, December, 2011, <http://www.feit-conf.org>, <http://www.feit-conf.org/committees.html>

Chair la 16th WSEAS International Conference on CIRCUITS, (part of CSCC '12), Kos Island, Greece, July 14-16, 2012,  
<http://www.wseas.org/wseas/cms.action?id=1047>

Program Committee Chair la The 3<sup>rd</sup> International Conference on System science, Engineering design and Manufacuring informatization, ICSEM 2012, 20-21 October, 2012, Chengdu, China, <http://www.sem-conf.org/committees.htm>,

General Chair la The International Conference on Information, Intelligent and Engineering Application, ICIIIEA 2013, May 11-12, 2013 in Xi-An, China,  
<http://www.iciiiea.org/Committees.htm>

Chair la 1st International Conference on CUSTOM INTEGRATED CIRCUITS, CIC '13, Antalya, Turkey, October 8-10, 2013,  
<http://www.wseas.org/wseas/cms.action?id=5508>

General Chair la International Conference on Recent Advances in Physics, RAPHY 2013, December 1 to 3, 2013, Xianning, China,  
<http://www.icraphy.org/tpc.aspx>

A3.3.  
3  
Membru în colectivele de redactie sau comitete stiintifice

39

Selectie

Editor șef al Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science, al Universitatii „Aurel Vlaicu” din Arad, din 2004, ISSN 1584-9198, <http://www.uav.ro/en/journals/stb>

	ale revistelor, organizare de manifestari științifice naționale și internaționale neindexate		<p><u>eeaccs .</u></p> <p>Editor Șef la volumul Proceedings of International Symposium <i>Research and Education in Innovation Era</i>, Section 3, <i>Engineering Processes and Technology, Electrical</i>, Arad, 16-18 November 2006, ISBN: 9978-973-752-110-1.</p> <p>Organizator al Secțiunea 3, Engineering Process and Technology, Electrical, Mechanical and Textile Engineering la International Symposium <i>Research and Education in Innovation Era, 16-18 November, Arad, Romania, 2006.</i></p> <p>Organizator a trei Seminarii în Arad și Timișoara cu participarea Prof. Michio Sugeno, 28 - 29 October 2006.</p> <p>Organizator al Seminarului <i>Tutorial on Datamining for E-Business on the Internet, Tutorial on Semantic WEB</i>" din Arad cu participarea Prof. Veljko Milutinovic, 2 May 2007.</p> <p>Organizator al The International Workshop <i>On Probability and Fuzziness and Their Role in Soft Computing. Theory and Applications</i>, June 19-20, 2007, Arad, Romania, invitat de onoare Prof. Dan Ralescu from the University of Cincinnati, USA, <a href="http://www.trivent.hu/Arad2007/index.html">http://www.trivent.hu/Arad2007/index.html</a>.</p> <p>Organizator al unei Sesiuni Speciale la The 5th European Conference on Intelligent Systems and Technologies, ECIT 2008, 10 - 12 July 2008, Iasi, Romania, <a href="http://www.iit.tuiiasi.ro/ecit2008/index.htm">http://www.iit.tuiiasi.ro/ecit2008/index.htm</a></p> <p>Organizator al unui Seminar <i>Research Directions in the Knowledge-Based Intelligent Engineering Systems Centre</i> in Arad cu participarea Prof. Lakhmi C. Jain, 28 August 2008.</p> <p>Co-organizator la Second International Workshop on Cognitive Computer Vision, 2 Martie 2012, Arad, <a href="http://trivent.hu/2012/cogcomvi2012/index.html">http://trivent.hu/2012/cogcomvi2012/index.html</a></p> <p>Membră în Comitetul Științific al "Simpozionului Energie – Resurse – Mediu al Studenților Orădenii". 24-26 mai 2012, Stana de Vale, Jud. Bihor, <a href="http://sermstudio2012.energetica-oradea.ro/">http://sermstudio2012.energetica-oradea.ro/</a></p> <p>Committee Member la Women's International Research Engineering Summit WIRES, 2011, <a href="http://www.wires.gatech.edu/committee.php">http://www.wires.gatech.edu/committee.php</a></p> <p>Organizator al unui Seminar <i>Multi/Many-Core Embedded System Design: Recent Trends and Challenges</i> in Universitatea Aurel Vlaicu din Arad, cu participarea Dr. Amlan Chakrabarti, University of Calcutta, India, 1 Iunie, 2013.</p> <p>Organizator a două seminarii <i>Digital Signal Processing: A Backward Glance and A Look Ahead și Nondistructive Evaluation with Emphasis on Barkhausen Noise</i> in Universitatea Aurel Vlaicu din Arad, cu participarea Prof. Vinod K. Madan, Universitatea Kalasalingam, India, 14 Iunie 2013.</p> <p>Member in Committee Members la Summit Committee, WIRES 2013, Women's International Research Engineering Summit, 9-12 September 2013, Athens, Greece, <a href="http://wires.gatech.edu/main.php">http://wires.gatech.edu/main.php</a></p>
A3.4. 1	Premii în domeniul Academia Română, ASTR, academiei de ramură, premii internaționale		—
A3.4. 2	Premii în domeniul Premii naționale în domeniul	60	<ol style="list-style-type: none"> <li>septembrie 2005 – <b>Certificate of Achievement</b> din partea IEEE Romanian Section în semn de recunoaștere a eforturilor pentru organizarea Workshopului Internațional <b>IEEE SOFA 2005</b> prima ediție, Szeged/Arad.</li> <li>August 2007 – <b>Certificate of Achievement</b> din partea IEEE Romanian Section – în semn de recunoaștere a eforturilor pentru</li> </ol>

- organizarea Workshopului Internațional IEEE SOFA 2007 ediția a doua, Iulie/Oradea.
3. 21 septembrie 2007 – CHC<sub>61</sub> - **Mențiune**, din partea IEEE Computer Society Web Programming Competition, pentru proiectul coordonat - „50 Years of Computing in Romania”
  4. 06.10.2007 – Timișoara –Asociația pentru Tehnologia Informației și Comunicații din România a acordat **Premiul pentru Excelență 2007 ATIC** echipei de studenți de la Universitatea “Aurel Vlaicu” din Arad pentru merite deosebite în crearea unui site al istoriei tehnicii de calcul din România. Echipa a fost formată din: Andrei Valentin Stoica, Aura-Letiția Rugea, Alexandru Țigan, Kristina Drienovski și **coordonatorul științific – Conf. Dr. Ing. Valentina Bălaș** de la Universitatea “Aurel Vlaicu” din Arad.
  5. **Senior Member IEEE 2007.**
  6. Who's Who in the World, 2007.
  7. **Grant CNCSIS tip PREC ISI - "PREMIERA REZULTATELOR IN CERCETARE" PN-II-RU-PRECISI-2008, martie 2008, Cod CNCSIS 203, Fusion devices and changes of belief, Journal of Intelligent and Fuzzy Systems.**  
- V. E. Bălaș, 2000 RON, poziția 169.
  8. Diplomă de participare ca mentor la trei echipe studențești în cadrul competiției **GOOGLE Online Marketing Challenge 2008**.
  9. Certificat de apreciere de la Georgia National Science Foundation pentru participarea ca expert internațional la State Science Grants Competition 2009.
  10. 18 martie 2011 **Certificate of Achievement** din partea Romania IEEE pentru contribuții aduse dezvoltării profesiei de inginer.
  11. Premiera rezultatelor cercetării – Premiu ANCS – Cod: PN-II-RU-PRECISI2011-3-1066, **Valentina E. Balas, Adaptive fuzzy sliding mode control for synchronization of uncertain fractional order chaotic systems, CHAOS SOLITONS & FRACTALS**, 2.000 lei, 2011, poz. 1043, pag 20/47,  
[http://www.uefiscdi.gov.ro/userfiles/file/PREMIERE\\_ARTICOLE/articole%202011/evaluare/rezultate%20septembrie%20actualizata%2022%20decembrie.pdf](http://www.uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/articole%202011/evaluare/rezultate%20septembrie%20actualizata%2022%20decembrie.pdf).
  12. Premiera rezultatelor cercetării – Premiu ANCS – Cod: PN-II-RU-PRECISI-2012-6-0698, **Valentina E. Balas, Adaptive fuzzy  $H_{\infty}$  tracking design of SISO uncertain nonlinear fractional order time-delay systems, Nonlinear Dynamics**, 4.000 lei, 2012, poz. 693, pag. 37/46  
[http://uefiscdi.gov.ro/userfiles/file/PREMIERE\\_ARTICOLE/articole%202012/REZULTATE%20IUNIE%20ACTUALIZAT%20BUNA.pdf](http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/articole%202012/REZULTATE%20IUNIE%20ACTUALIZAT%20BUNA.pdf).

TOTAL A3		1081,5
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Factor de impact cumulat : 7,3341 (reviste ISI) + 9,5 (38 articole ISI Proceedings) = 16,8341

## Număr de citări în cărți, reviste și volume ale unor manifestări științifice ISI

Numarul publicatiei care citeaza	Referinta bibliografica a publicatiei k care citeaza	Factor de impact
<b>1. Observer-based adaptive variable structure control and synchronization of unknown chaotic systems</b> Navid Noroozi, Mehdi Roopaei, Valentina Emilia Balas, Tsung-Chih Lin SACI'2009, pp.71~76 <b>- 6 puncte</b>		
1.	<b>Adaptive hybrid type-2 intelligent sliding mode control for uncertain nonlinear multivariable dynamical systems</b> Tsung-Chih Lin, Ming-Che Chen Fuzzy Sets and Systems Volume 171, Issue 1, 16 May 2011, Pages 44-71 Theme: Systems Engineering	<b>1.04973</b>
2.	<b>Synchronization of uncertain chaotic systems based on adaptive type-2 fuzzy sliding mode control</b> Tsung-Chih Lin, Ming-Che Chen, Mehdi Roopaei Engineering Applications of Artificial Intelligence Volume 24, Issue 1, February 2011, Pages 39-49 <a href="http://www.sciencedirect.com/science/article/pii/S0952197610001879">http://www.sciencedirect.com/science/article/pii/S0952197610001879</a>	<b>1.11019</b>
3.	<b>Based on interval type-2 adaptive fuzzy <math>H^\infty</math> tracking controller for SISO time-delay nonlinear systems</b> Tsung-Chih Lin, Mehdi Roopaei Communications in Nonlinear Science and Numerical Simulation, Volume 15, Issue 12, December 2010, Pages 4065-4075 <a href="http://www.sciencedirect.com/science/article/pii/S1007570410000596">http://www.sciencedirect.com/science/article/pii/S1007570410000596</a>	<b>ISI - 0</b>
<b>2. Adaptive gain fuzzy sliding mode control in uncertain MIMO nonlinear systems</b> Mehdi Roopaei, Valentina Emilia Balas, Tsung-Chih Lin, Alireza Seifi Nonlinear Studies, Vol 16, No 3 (2009), pp 261-274 <b>- 6 puncte</b>		
1.	<b>Adaptive hybrid type-2 intelligent sliding mode control for uncertain nonlinear multivariable dynamical systems</b> Tsung-Chih Lin, Ming-Che Chen, Fuzzy Sets and Systems Volume 171, Issue 1, 16 May 2011, Pages 44-71 Theme: Systems Engineering <a href="http://www.sciencedirect.com/science/article/pii/S0165011410004586">http://www.sciencedirect.com/science/article/pii/S0165011410004586</a>	<b>1.04973</b>
2	<b>Synchronization of uncertain chaotic systems based on adaptive type-2 fuzzy sliding mode control</b> Tsung-Chih Lin, Ming-Che Chen, Mehdi Roopaei Engineering Applications of Artificial Intelligence Volume 24, Issue 1, February 2011, Pages 39-49	<b>1.11019</b>

	<a href="http://www.sciencedirect.com/science/article/pii/S0952197610001879">http://www.sciencedirect.com/science/article/pii/S0952197610001879</a>	
3	<b>Parameters Adaptive Sliding Mode Control for a Class of Uncertain Nonlinear Systems and Its Application,</b> SHI Xin LI Ying ZHANG Yuan-tao, Control Engineering of China, 2012, 19(5)	0
1	<b>Adaptive fuzzy formation control for a swarm of nonholonomic differentially driven vehicles</b> <b>An <math>H^\infty</math>-based robust control design</b> <u>Bijan Ranjbarsahraei, Mehdi Roopaei and Siavash Khosravi</u> <u>Nonlinear Dynamics</u> DOI: 10.1007/s11071-011-0186-0 <a href="http://www.springerlink.com/content/1742012598075773/">http://www.springerlink.com/content/1742012598075773/</a>	1.9969
2	<b>Fuzzy Logic Control System Stability Analysis Based on Lyapunov's Direct Method</b> R.-E. Precup, M.-L. Tomescu, St. Preitl Int. J. of Computers, Communications & Control, ISSN 1841-9844, Vol. IV (2009), No. 4, pp. 415-426	0
3.	<b>Preliminary Issues on Brain – Machine Contextual Communication Structure Development</b> T. Vesselenyi, I. Dzitac, S. Dzitac, C. Hora, C. Porumb <u>Soft Computing Applications, 2009. SOFA '09. 3rd International Workshop on</u> , pag. 37-42, ISBN 978-1-4244-5054-1, IEEE, INSPEC	ISI Proceedings
4.	<b>Constant Time to Collision Platoons</b> 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 - <u>8 puncte</u>	
1.	<b>Trajectory optimization for eco-driving taking into account traffic constraints</b> <u>Felicitas Mensing, Eric Bideaux, Rochdi Trigui, Helene Tattegrain</u> <u>Transportation Research Part D: Transport and Environment</u> <u>Volume 18, January 2013, Pages 55–61</u>	ISI - 1,61
2.	<b>Quantitative indicator of homeostatic risk perception in car following</b> <u>Guangquan Lu, Bo Cheng, Qingfeng Lin, Yunpeng Wang,</u> <u>Safety Science</u> <u>Volume 50, Issue 9, November 2012, Pages 1898–1905</u>	ISI - 1,14
5.	<b>World knowledge for sensors and estimators by models and internal models</b> V.E. Balas, L.C. Jain, <u>Journal of Intelligent and Fuzzy Systems</u> , Volume 21, Number 1-2 / 2010, pag. 79-88, <a href="http://iospress.metapress.com/content/95nrj532w0121785/">http://iospress.metapress.com/content/95nrj532w0121785/</a> - <u>4 puncte</u>	
1.	<b>Adaptive fuzzy formation control for a swarm of nonholonomic differentially driven vehicles</b> <b>An <math>H^\infty</math>-based robust control design</b>	1.9969

	Bijan Ranjbarsahraei, Mehdi Roopaei and Siavash Khosravi <u>Nonlinear Dynamics</u> DOI: 10.1007/s11071-011-0186-0 <a href="http://www.springerlink.com/content/17420l2598075773/">http://www.springerlink.com/content/17420l2598075773/</a>	
<b>6. Fuzzy controllers for tire slip control in anti-lock braking systems</b>		
Precup, R.E.; Preitl, S.; Balas, M.; Balas, V., <u>Fuzzy Systems, 2004. Proceedings. 2004 IEEE International Conference on</u> , 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, <a href="http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=1375359">http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=1375359</a> - 2 puncte		
1.	<b>ANALYSIS OF FUZZY CONTROL SOLUTIONS FOR ANTI-LOCK BRAKING SYSTEMS</b> Marian Stan, Radu-Emil Precup, Adrian Sebastian Paul, CEAI, Vol. 9, No. 2, pp. 11-22, 2007 <a href="http://ceai.srait.ro/index.php/ceai/article/viewFile/68/28">http://ceai.srait.ro/index.php/ceai/article/viewFile/68/28</a>	ISI 0
<b>7. Adaptive fuzzy sliding mode control for synchronization of uncertain fractional order chaotic systems</b>		
Tsung-Chih Lin, Tun-Yuan Lee, Valentina E. Balas Chaos, Solitons & Fractals, ISSN 0960-0779, Elsevier, Volume 44, Issue 10, October 2011, Pages 791-801 factor de impact relativ - ISI - 1,4092, (1.2348224513173 – 2010), doi:10.1016/j.chaos.2011.04.005, <a href="http://sd1.myipcn.org/science/article/pii/S0960077911001433">http://sd1.myipcn.org/science/article/pii/S0960077911001433</a> - 18,6 puncte		
1.	<b>Control for a class of four-dimensional chaotic systems with random-varying parameters and noise disturbance</b> Diyi Chen, Weili Zhao, Xiaoyi Ma, Juan Wang, Journal of Vibration and Control 1077546312441657, first published on March 30, 2012	1.2382
2.	<b>Synchronization of integer order and fractional order Chua's systems using robust observer</b> Ichraf El Gammoudi, Moez Feki Commun Nonlinear Sci Numer Simulat, ISSN: 1007-5704 <a href="http://dx.doi.org.scopeesprx.elsevier.com/10.1016/j.cnsns.2012.08.005">http://dx.doi.org.scopeesprx.elsevier.com/10.1016/j.cnsns.2012.08.005</a> , available on line from August 2012	0
3.	<b>Adaptive Fuzzy Total Sliding-Mode Control of Unknown Nonlinear Systems</b> Chih-Min Lin, Chun-Fei Hsu, and Te-Yu Chen <a href="http://www.ijfs.org.tw/ePublication/2012_paper_3/ijfs12-3-r-9-0806_final_IJFS_PI-AFSMC.pdf">http://www.ijfs.org.tw/ePublication/2012_paper_3/ijfs12-3-r-9-0806_final_IJFS_PI-AFSMC.pdf</a>	0
4.	<b>Adaptive fuzzy sliding-mode control system design for brushless DC motors</b> Chih-Min Lin, Chun-Fei Hsu, Rong-Guan Yeh, International Journal of Innovative Computing, Information and Control, ISSN 1349-4198, Vol. 9, Nr. 3, March 2013, pp. 1259-1270, <a href="http://www.ijicic.org/ijicic-12-01045.pdf">http://www.ijicic.org/ijicic-12-01045.pdf</a>	0,35256
5.	<b>Adaptive control of hyper-chaotic systems based on dynamic structure RBF neural networks</b> Jing, W., Hong-Xia, G., Zhen-Yu, T., Jin-Feng, G <u>Applied Mechanics and Materials</u> Volume 229-231, 2012, Pages 2311-2314 4th International Conference on Mechanical and Electrical Technology, ICMET 2012; Kuala Lumpur; 24 July	0

	2012 through 26 July 2012; Code 94581	
6.	<b>Modified generalized projective synchronization of incommensurate fractional order chaotic systems</b> S Chao, CJ De Control Conference (CCC), 2012 31st Chinese, 2012 – pag. 1065-1069	0
7.	<b>Robust synchronization for a class of fractional-order dynamical system via linear state variable</b> <u>C. Li, J. Xiong, W. Li, Y. Tong, Y. Zeng</u> Indian Journal of Physics, March 2013, pag. Springer –Verlag, ISSN 0974-9845, <a href="http://link.springer.com/article/10.1007/s12648-013-0267-7v">http://link.springer.com/article/10.1007/s12648-013-0267-7v</a>	0,14781
<b>8. Optimizing the distance-gap between cars by constant time to collision planning</b> M. M. Balas, V. E. Balas, and J. Duplaix in <i>Proceedings of the IEEE International Symposium on Industrial Electronics (ISIE '07)</i> , pp. 304–309, June 2007 – <b>2,6 puncte</b>		
1.	<b>A Truncated Waveguide Fed by a Microstrip as a Radiating Element for High-Performance Automotive Anticollision Radars</b> Giovanni Andrea Casula, Giuseppe Mazzarella, and Giorgio Montisci Hindawi Publishing Corporation International Journal of Antennas and Propagation Volume 2012, Article ID 983281, 9 pages doi:10.1155/2012/983281 <a href="http://www.hindawi.com/journals/ijap/2012/983281/">http://www.hindawi.com/journals/ijap/2012/983281/</a>	0,754
<b>9. AI Challenges in Iris Recognition. Processing Tools for Bath Iris Image Database</b> N. Popescu-Bodorin, V.E. Balas, , Recent Advances in Automation & Information, Proc. WSEAS 11th Int. Conf. on Automation & Information (ICAI'10), pp. 116-121, ISSN: 1790-5117, ISBN 978-960-474-193-9, WSEAS Press, June 2010. - <b>4 puncte</b>		
1.	<b>Feature extraction for different distances of visible reflection iris using multiscale sparse representation of local Radon transform</b> AFM Raffei, H Asmuni, R Hassan, RM Othman - Pattern Recognition, 2013	2,53938
<b>10. Artificial neural network for accurate prediction of post-dialysis urea rebound</b> AT Azar, VE Balas, T Olariu, d, IEEE 4th International Workshop on Soft Computing Applications (SOFA), 2010, pag 165-170. – <b>2,6 puncte</b>		
1.	<b>Adaptive network based on fuzzy inference system for equilibrated urea concentration prediction</b> AT Azar - Computer Methods and Programs in Biomedicine, 2013 - Elsevier	0,95298
<b>11. Combined Haar-Hilbert and Log-Gabor Based Iris Encoders</b> Valentina E. Balas, Iulia Motoc, Alina Barbulescu, Title of the book: <i>New concepts and applications in Soft Computing</i> , Volume, Studies in Computational Intelligence, Vol. 417, Balas, Valentina Emilia; Fodor, János; Varkonyi-Kóczy, Annamaria (Eds.), 2012, XII, ISBN 978-3-642-28958-3, pag. 1-26, Springer. – <b>8 puncte</b>		
1.	<b>Noise Influence on the Fuzzy-Linguistic Partitioning of Iris Code Space</b> IM Motoc, CM Noaica, R Badea, CG Ghica - Soft Computing Applications, 2013 – Springer, pag. 71-82	ISI Proceedings

2.	<b>A Multi-algorithmic Colour Iris Recognition System</b> <u>Petru Radu, Konstantinos Sirlantzis, Gareth Howells, Sanaul Hoque, Farzin Deravi</u> - Soft Computing Applications, 2013 – Springer, pag. 45-56	<b>ISI Proceedings</b>
3.	<b>Examples of Artificial Perceptions in Optical Character Recognition and Iris Recognition</b> <u>CM Noaica, R Badea, IM Motoc, CG Ghica, AC Rosoiu, N Popescu-Bodorin</u> , Soft Computing Applications, 2013 – Springer, pag. 57-69	<b>ISI Proceedings</b>

## 12. Adaptive Fuzzy $H^\infty$ Tracking Design of SISO Uncertain Nonlinear Fractional Order Time-Delay Systems

Tsung-Chih Lin, Chia-Hao Kuo, Tun-Yuan Lee and **Valentina E. Balas**, , Nonlinear Dynamics, Volume 69, Number 4 (2012), pag. 1639-1650, DOI: 10.1007/s11071-012-0375-5, Springer, ISSN 0924-090X, ISI, Impact Factor 1,9969. – 2 puncte

1.	<b>Bivariate Module-Phase Synchronization of a Fractional-Order Lorenz System in Different Dimensions</b> Xing-Yuan Wang and Hao Zhang - Journal of Computational and Nonlinear Dynamics, 8(3), 031017 (Mar 21, 2013) (7 pages) doi:10.1115/1.4023438	<b>ISI - 0</b>
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## 13. Switching Adaptive Correctors for Fuzzy Fusion Self-Adapted Interpolative Controllers

V. E. Balas, M. M. Balas, ISCHI'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, Library of Congress: 2007923135 – 4 puncte

1.	<b>Neuro-Fuzzy System for Intelligent Course Control of Underactuated Conventional Ships</b> V. Nicolau, <u>Soft Computing Applications</u> , 2007. SOFA 2007. 2nd International Workshop on , pag. 95-101, ISBN 978-1-4244-1608-0, IEEE, INSPEC, ISI Proceedings.	<b>ISI Proceedings</b>
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## 14. Iris Codes Classification Using Discriminant and Witness Directions

N. Popescu-Bodorin, V.E. Balas, I.M. Motoc, International Symposium on Computational Intelligence and Intelligent Informatics, ISCHI 2011, September 15-17, 2011, Floriana, Malta, pag. 143-148, ISBN 978-1-4577-1859-5, IEEE Catalog Number: CFP 1136C-CDR, <http://www.trivent.hu/ISCHI2011/index.php?p=invitation> – 5,3 puncte

1.	<b>Noise Influence on the Fuzzy-Linguistic Partitioning of Iris Code Space</b> IM Motoc, CM Noaica, R Badea, CG Ghica - Soft Computing Applications, 2013 – Springer, pag. 71-82	<b>ISI Proceedings</b>
2.	<b>Examples of Artificial Perceptions in Optical Character Recognition and Iris Recognition</b> <u>CM Noaica, R Badea, IM Motoc, CG Ghica, AC Rosoiu, N Popescu-Bodorin</u> , Soft Computing Applications, 2013 – Springer, pag. 57-69	<b>ISI Proceedings</b>

## 15. Comparing Haar-Hilbert and Log-Gabor Based Iris Encoders on Bath Iris Image

**Database**

Nicolae Popescu-Bodorin, Valentina E. Balas, 4<sup>th</sup> International Workshop on Soft Computing Applications, SOFA 2010, pag. 191-196, 15-17 July 2010, Arad, Romania, ISBN: 978-1-4244-7982-5 – **8 puncte**

1.	<b>Noise Influence on the Fuzzy-Linguistic Partitioning of Iris Code Space</b> IM Motoc, CM Noaica, R Badea, CG Ghica - Soft Computing Applications, 2013 – Springer, pag. 71-82	<b>ISI Proceedings</b>
2.	<b>A Multi-algorithmic Colour Iris Recognition System</b> <u>Petru Radu</u> , <u>Konstantinos Sirlantzis</u> , <u>Gareth Howells</u> , <u>Sanaul Hoque</u> , <u>Farzin Deravi</u> - Soft Computing Applications, 2013 – Springer, pag.45-56 <b>Examples of Artificial Perceptions in Optical Character Recognition and Iris Recognition</b> <u>CM Noaica</u> , <u>R Badea</u> , <u>IM Motoc</u> , <u>CG Ghica</u> , <u>AC Rosoiu</u> , <u>N Popescu-Bodorin</u> , Soft Computing Applications, 2013 – Springer, pag. 57-69	<b>ISI Proceedings</b>

**16. From Cognitive Binary Logic to Cognitive Intelligent Agents**

Nicolae Popescu-Bodorin, Valentina E. Balas, IEEE 14<sup>th</sup> International Conference on Intelligent Engineering Systems, INES 2010, pag. 337-340, May 5-7, 2010, Las Palmas of Gran Canaria, Spain, ISBN: 978-1-4244-7651-0 – **4 puncte**

1.	<b>Examples of Artificial Perceptions in Optical Character Recognition and Iris Recognition</b> CM Noaica, R Bdea, IM Motoc, CG Ghica, AC Rosoiu, N Popescu-Bodorin, Soft Computing Applications, 2013 – Springer, pag. 57-69	<b>ISI Proceedings</b>
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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.	<b>Neuro-Fuzzy System for Intelligent Course Control of Underactuated Conventional Ships</b> V. Nicolau, <u>Soft Computing Applications, 2007. SOFA 2007. 2nd International Workshop on</u> , pag. 95-101, ISBN 978-1-4244-1608-0, IEEE, INSPEC, ISI Proceedings.	<b>ISI Proceedings</b>
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**Număr de citări în cărți, reviste și volume ale unor manifestări științifice BDI**

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1.	<b>Multi-adaptive neural-fuzzy system as a novel predictor of in-vivo blood side dialyser urea clearance</b> <u>AT Azar</u> - International Journal of Computer Applications in Technology, 2013 – Inderscience, Volume 46, Number 2 / January 2013 Pag. 77-90	
	<b>2. Iris Codes Classification Using Discriminant and Witness Directions</b> N. Popescu-Bodorin, V.E. Balas, I.M. Motoc, International Symposium on Computational Intelligence and Intelligent Informatics, ISCI III 2011, September 15-17, 2011, Floriana, Malta, pag. 143-148, ISBN 978-1-4577-1859-5, IEEE Catalog Number: CFP 1136C-CDR, <a href="http://www.trivent.hu/ISCI2011/index.php?p=invitation">http://www.trivent.hu/ISCI2011/index.php?p=invitation</a> – 1,3 puncte	
1.	<b>A review of information fusion techniques employed in iris recognition systems</b> Petru Radu, Konstantinos Sirlantzis, Gareth Howells, Farzin Deravi, Sanaul Hoque, <u>International Journal of Advanced Intelligence Paradigms</u> , 2012 - Inderscience	SCOPUS
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4	<p><b>Parameters Adaptive Sliding Mode Control for a Class of Uncertain Nonlinear Systems and Its Application</b>  SHI Xin LI Ying ZHANG Yuan-tao  Control Engineering of China, 2012, 19(5)  <a href="http://d.wanfangdata.com.cn/periodical_jczdh201205038.aspx">http://d.wanfangdata.com.cn/periodical_jczdh201205038.aspx</a></p>	
<p><b>5. Comparing Haar-Hilbert and Log-Gabor Based Iris Encoders on Bath Iris Image Database</b></p> <p>Nicolae Popescu-Bodorin, Valentina E. Balas, 4<sup>th</sup> International Workshop on Soft Computing Applications, SOFA 2010, pag. 191-196, 15-17 July 2010, Arad, Romania, ISBN: 978-1-4244-7982-5 - 2 puncte</p>		
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<p><b>6. AI Challenges in Iris Recognition. Processing Tools for Bath Iris Image Database</b></p>		

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AT Azar, VE Balas, T Olariu

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3	<u><b>Adaptive network based on fuzzy inference system for equilibrated urea concentration prediction</b></u> <u>AT Azar</u> - Computer methods and programs in biomedicine, 2013 – Elsevier, Volume 111, Issue 3 , Pages 578-591, September 2013, PII: S0169-2607(13)00169-7	INSPEC, Compendex

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