

**EUROPEAN
CURRICULUM VITAE
FORMAT**



INFORMATII PERSONALE

Name si prenume

Adresa

Telefon

Fax

E-mail

Nationalitate

Data nasterii

VALENTINA EMILIA BALAS

NR.6 NICOLA ALEXICI, 310095, ARAD, ROMANIA

0040-257-219101, 0040-740059151

0040-257-250389

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Romana

24 APRILIE 1956, ARAD

**A. 1. EXPERIENTA
PROFESIONALA**

- Perioada (de la – pana la)
- Numele si adresa angajatorului
- Tipul activitatii sau sectorul de activitate
- Functia sau postul ocupat
- Principalele activitati si responsabilitati

1993-prezent

Universitatea "Aurel Vlaicu" din Arad, B-dul Revolutiei 310130 Arad
Educatie

Asistent, Sef de lucrari, Conferentiar Universitar

Sustinerea cursurilor la disciplinele Electronica, Automatizarea proceselor textile, Masurari senzori si traductoare, Standarde in Automatica, Inginerie Biomedicala, a seminarilor si laboratoarelor la Teoria Sistemelor si la disciplinele mentionate anterior.

Secretar stiintific al Catedrei, Secretar stiintific al Facultatii de Inginerie (2004-2008)

Membru in Consiliul Profesorat al Facultatii de Inginerie (2000-prezent)

Membru al Senatului Universitatii (2000-2008)

**A. 2. EXPERIENTA
PROFESIONALA**

- Perioada (de la – pana la)
- Numele si adresa angajatorului
- Tipul activitatii sau sectorul de activitate
- Functia sau postul ocupat
- Principalele activitati si responsabilitati

1984-1993

Centrul de Cercetare stiintifica si Inginerie Tehnologica pentru Vagoane Arad
Industrie

Inginer proiectant, Sef colectiv tehnic, Secretar al Comitetului Roman de Standardizare Nr. 144.
Proiectare-cercetare in cadrul unor proiecte realizate de Atelierul Utilaje al CCSIT Vagoane Arad

**A. 3. EXPERIENTA
PROFESIONALA**

- Perioada (de la – pana la)
- Numele si adresa angajatorului
- Tipul activitatii sau sectorul de activitate
- Functia sau postul ocupat
- Principalele activitati si

1980-1984

Aeroportul Oradea, Calea Aradului Nr. Jud. Bihor
Transport aerian

Adjunct al Sefului Serviciului Protectia Navigatiei Aeriene
Intretinere, reparatie, calibrare a aparaturii de radio-navigatie

B. 1. EDUCATIE SI FORMARE

- Perioada (de la – pana la)
- Numele si tipul institutiei de invatamant
- Domeniul studiat/aptitudini ocupationale
- Tipul calificarii/diploma obtinuta
- Nivelul de clasificare a formei de instruire/invatamant

1995-2003
 Universitatea Politehnica Timisoara
 Educatie
 Inginerie Electronica si Telecomunicatii
 Doctor
 Acordarea distinctiei Cum laude

B. 2. EDUCATIE SI FORMARE

- Perioada (de la – pana la)
- Numele si tipul institutiei de invatamant
- Domeniul studiat/aptitudini ocupationale
- Tipul calificarii/diploma obtinuta
- Nivelul de clasificare a formei de instruire/invatamant

1975-1980
 Institutul Politehnic „Traian Vuia” din Timisoara, Facultatea de Electrotehnica, Specializarea Electronica si Telecomunicatii
 Educatie
 Inginerie Electronica si Telecomunicatii
 Inginer Diplomat
 Licenta

C. APTITUDINI SI COMPETENTE PERSONALE

Dobandite in cursul vietii si carierei dar care nu sunt recunoscute neaparat printr-un certificat sau o diploma

C.1. LIMBA MATERNA**ROMANA****C. 2. LIMBI STRAINE CUNOSCUTE**

- Abilitatea de a citi
- Abilitatea de a scrie
- Abilitatea de a vorbi

Engleza
 excelent
 excelent
 excelent

C. 3. LIMBI STRAINE CUNOSCUTE

- Abilitatea de a citi
- Abilitatea de a scrie
- Abilitatea de a vorbi

Franceza
 excelent
 excelent
 excelent

C. 4. APTITUDINI SI COMPETENTE SOCIALE

SAH:
 - Jucatoare de sah de categoria I
 - Arbitru de sah categoria a II-a.

C. 5 APTITUDINI SI COMPETENTE ORGANIZATORICE

- ACTIVITATEA DE COORDONARE IN CALITATE DE SEF COLECTIV PE PARTEA ELECTRICA A PROIECTELOR DE CERCETARE-DEZVOLATRE IN CADRUL CCSIT VAGOANE ARAD.
 - CO-ORGANIZATOR AL SPECIALIZARII DE AUTOMATICA SI INFORMATICA APLICATA
 - CO-ORGANIZAREA SI COORDONAREA A PATRU EDITII (2003-2006) A PROIECTELOR – SCOALA DE VARA „SOFT COMPUTING” REALIZATE CU FONDURI OBTINUTE DE LA CONSILIUL JUDETEAN ARAD.
 GENERAL CO-CHAIR LA WORKSHOPUL INTERNATIONAL SOFA 2005, 2007, 2009 si 2010.
 - RESPONSABIL AL SECTIEI DE SAH A CLUBULUI SPORTIV UNIVERSITAR „AUREL VLAICU” ARAD.

- ORGANIZAREA SI COORDONAREA A NOUA EDITII (2001-2009) ALE OPENULUI INTERNATIONAL DE SAH „MEMORIAL IVAN HALIC” ARAD.
- VICEPRESEDINTE AL AGIR FILIALA ARAD DIN 2005
- ORGANIZATOR SI PRESEDINTE AL ASOCIATIEI DE AUTOMATIZARI SI INSTRUMENTATIE DIN ROMANIA, FILIALA ARAD DIN 2005
- PRESEDINTE AL FILIALEI ARAD A SRAIT – SOCIETATEA ROMANA DE AUTOMATICA SI INFORMATICA TEHNICA

**C. 6. APTITUDINI SI COMPETENTE
TEHNICE**

CUNOSTINTE PC, WINDOWS XP, MICROSOFT OFFICE, INTERNET, EXCEL, C, MATLAB, LABVIEW.

Lucrari elaborate si/sau publicate:

- 3 carti
- 120 de lucrari stiintifice publicate in tara si strainatate in Reviste si Volumele unor conferinte.

**C. 7. APTITUDINI SI COMPETENTE
ARTISTICE**

**C. 8. ALTE APTITUDINI SI
COMPETENTE**

Evaluator pentru burse „Nicolae Titulescu”
 Evaluator ARACIS
 Evaluator CNCSIS
 Expert evaluator de proiecte pentru Georgia National Science Foundation
 Expert evaluator pentru proiecte din programul PNCDI – II
 Evaluator EQANIE European Quality Assurance Network for Informatics Education din 2009
 Membră a Asociației de Dezvoltare Multidisciplinare – Timișoara din 2002
 Membră IEEE CIS – Computational Intelligence Society din 2003
 Membră WCI – Woman in Computational Intelligence din 2006
 Membră AAIR din 2005
 Membră AGIR din 2005
 IEEE Senior Member din 2007
 Membră EUSFLAT European Society for Fuzzy Logic and Technology din 2007
 Membră în Comitetul Tehnic Emergent Technologies de la IEEE CIS
 Membră în Comitetul Tehnic Soft Computing de la IEEE SMC
 Membră ACM - Association for Computing Machinery din 2008
 Membră IEEE IES (Industrial Electronics) și SMC (Systems Man and Cybernetics) din 2009
 Membră a IAENG - International Association of Engineers din 2009
 Membră a comunitatii academice International Congress for Global Science and Technology – ICGST, Egipt, 2009
 Membră a International Society on Multiple Criteria Decision Making MCDM din 2009
 Membră a Academiei de Stiințe din Kurdistan din 2009
 Membră a Academiei de Stiință din New York din 2009
 Membră a SIAM Society for Industrial and Applied Mathematics din 2010
 Membră a Research Gate Scientific Network, India din 2010

C. 9 PERMIS DE CONDUCERE

Permis de conducere Categoria B din 1974

INFORMATII SUPLIMENTARE

1. PROF.DR.ING. MIRCEA CIUGUDEAN, POLITEHNICA UNIVERSITY OF TIMISOARA, ROMANIA
TEL. 0040-722486853

E-MAIL: MACIUGUDEAN@YAHOO.COM

2. Prof. Lotfi A. Zadeh , Berkeley University of California, USA

E-mail: zadeh@eecs.berkeley.edu

3. Prof. Lakhmi C. Jain, Professor of Knowledge-Based Engineering,
Founding Director of the KES Centre,

School of Electrical and Information Engineering,
University of South Australia

E-mail: Lakhmi.Jain@unisa.edu.au

ANEXĂ

LISTA CU LUCRARI STIINTIFICE

Capitole in carte:

1. V. E. Balas, M. M. Balas. *Traffic Management by Constant Time to Collision*, Ignac Lovrek, Robert J. Howlett and Lakhmi C. Jain (Eds.), Book: *Knowledge-Based Intelligent Information and Engineering Systems*, 12th International Conference, KES 2008, Zagreb, Croatia, September 3-5, 2008, Proceedings, Part III, LNAI 5179/2008, pp. 658–663, 2008, © Springer-Verlag Berlin Heidelberg 2008, ISBN 978-3-540-85566-8, DOI 10.1007/978-3-540-85567-5_81, <http://www.springerlink.com/content/54066776m5814356/>,

2. M. M. Balas, Valentina E. Balas – *Postmodernism and Control Engineering*, Rudolf Seising (editor): Views on Fuzzy Sets and Systems from Different Perspective. Philosophy, Logic; Criticism and Applications, Vol. 243, ISBN 978-3-540-93801-9, Cap 18, pag. 377-390, <http://www.springer.com/engineering/book/978-3-540-93801-9>

3. V.E. Balas, M. M. Balas. *A Survey on the Constant Time to Collision Techniques*, Lotfi A. Zadeh, Dan Tufis, 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 , 11 pag. (to appear).

4. M. M. Balas, V.E. Balas. *World Knowledge for Controllers by Fuzzy-Interpolative Systems*, Lotfi A. Zadeh, Dan Tufis, 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, 11 pag, 2008.

5. M. M. Balas, Valentina E. Balas – *The Fuzzy Interpolative Control for Passive Greenhouses*, H.-N. Teodorescu, J. Watada, and L.C. Jain (Eds.): **Intelligent Systems and Technologies, SCI 217**, Vol. 217, ISBN978-3-642-01884-8, pp. 219–231, 2009, <http://www.springer.com/engineering/book/978-3-642-01884-8>

Reviste

1. M. Bălaș, V. Bălaș. *Dispozitiv de optimizare a funcționării iluminatului în vagoanele de călători*. Publicată în “Revista CFR” nr. 5/1993, pag. 20 – 22.

2. M. Bălaș, V. Bălaș, C. Alexandrescu. *Some Remarks on the Fuzzy - PID Controllers*. Buletinul Științific al Universității "Politehnica " din Timișoara, Proceedings of the Symposium on Electronics and Telecommunications "Etc.'98", Vol II, Timișoara, sept. 17-18 1998, pag. 277-282, ISSN 1224-6034,

3. V. Bălaș. *The Computer Model of an Intelligent Speed Sensor for Railway Coaches*. A 5-a Conferință internațională de Ingineria Sistemelor Moderne în Electrotehnică, Universitatea din Oradea, Fascicola Electrotehnică, Analele Universității din Oradea, Fascicola electrotehnică, Sect. C, 28-29 mai 1999, Băile Felix, pag. 33-37, ISSN 1223-2106,

4. M. Bălaș, V. Bălaș, T. L., Dragomir. [A preamble on the identification of the operating regimes of the controllers by the help of the phase trajectory](#) . Electronic BUSEFAL ISSN 0296-3698. Busefal #87, LAMII / CESALP – Universite de Savoie, Annecy, France, Iunie 2002 Format electronic. http://www.listic.univ-savoie.fr/modules.php?name=Busefal&func=AfficherVolume&no_volume=87

5. V. Bălaș, E. Roventă. T. Spircu. *Weighted Fusion of Changes of Belief*. CONTI 2004, The 6-th International Conference on Technical Informatics „Politehnica” University of Timisoara, Faculty of Automation and Computers, 27-28 May 2004, Scientific Bulletin of „Politehnica” University of Timișoara, Romania, Transactions on Automatic Control and Computer Science, Vol.49(63), 2004, ISSN 1224-600X, pag. 105 – 110, Editura Politehnica,

6. C. Muscă, V. Bălaș. *Energy Saving by Euristic Control Rules in Greenhouses*. Simpozionul cu participare internațională: "Cercetarea științifică o punte spre integrarea europeană", Arad, 3-4 noiembrie 2004, Analele Universității "Aurel Vlaicu" din Arad, Seria Textile, Fascicola: tehnologii textile, pag. 548 – 555, ISSN 1582-3431,
7. V. Bălaș, C. Barna, S. Bălaș. *The Estimation of the Vegetation Stage of Greenhouse Plants by Fused Sensors of Images and CO₂*. Simpozionul cu participare internațională: "Cercetarea științifică o punte spre integrarea europeană", Arad, 3-4 noiembrie 2004, Analele Universității "Aurel Vlaicu" din Arad, Seria Textile, Fascicola: tehnologii textile, pag. 530 – 535, ISSN 1532-3431,
8. V. Bălaș, M. Bălaș. *Considerații asupra modelelor interne*. "Aurel Vlaicu" University of Arad, Faculty of Engineering, Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science, Vol. I, No.1, 2004, pag. 19-34. ISSN 1584-9198.
9. V. Balaș. *Railway vehicles' diagnosis by internal models*. Analele Universității din Oradea, Fascicula Electrotehnică, Secțiunea Știința Calculatoarelor și Sisteme de Control, Proceedings of the 8th International Conference on Engineering of Modern Electric Systems EMES '05, 26 - 28 May, 2005, Oradea, pag. 18-23, ISSN 1223-2106,
10. M. Bălaș, M. Ciugudean, V. Bălaș. *Adaptive Fuzzy Interpolative Controllers and Applications*. Revista de Inventica, Nr. 48, Vol IX, An XV, 2005, Romanian Journal for Creativity in Engineering and Technology – Research and Education Reports, Special Issue, Guest Editors: Horia-Nicolai Teodorescu, Seizaburo Arita, Zvetlana Cojocar, Romanian Inventors Society, Iasi, ISSN 1210-3084, pag. 13-23, <http://www.inventica.org.ro/revista/reviste/r48/Abstract%2048.pdf>
11. M.M. Balas, V.E. Balas, D. V. Balas-Timar, L. R. Szantho. *The Fuzzy-Interpolative Methodology in Soft Computing*. WSEAS Transactions on Information Science and Applications, Issue 9, Volume 3, September 2006, ISSN 1790-0832, pg. 1625-1631,
12. I. Filip, O. Prostean, I. Szeidert, V. Balas, G. Prostean. *Comparative Study Regarding an Adaptive Fuzzy Controller and a Self-Tuning Controller with Application to the Excitation Control of a Synchronous Generator*. WSEAS Transactions on Systems, Issue 7, Volume 5, July 2006, ISSN 1109-2777, pag. 1587-1994,
13. V. E. Balas, M. M. Balas. *Observing Control Systems by Phase Trajectories of the Error*. WSEAS Transactions on Systems, Issue 7, Volume 5, July 2006, ISSN 1109-2777, <http://www.wseas.org>, pag. 1717-1722, <http://www.worldses.org/journals/systems/systems-july2006.doc>,
14. M. M. Balas , V. E. Balas, S. V. Musca, C. Musca. *Ecological Reconstruction Using Energetic Passive Greenhouses*. RSEE, 6th International Conference on Renewable Sources and Environmental Electro-Technologies, 8 - 10 June 2006, Oradea , Romania, Computer Science And Control Systems Session pag. 265-270, Analele Universitatii din Oradea/Fascicula ELECTROTEHNICA, Sectiunea: Stiinta Calculatoarelor si Sisteme de Control, http://electroinf.uoradea.ro/facultate/fascicola_ssc.html,
15. A. Stoica, A. Tigan, A. Rugea, K. Drienovski, V. Balas. *Development od a Computerized System of Irrigation for Helping Crops Grow*, Scientific and Technical Bulletin, Series: Mechanical Engineering, Vol. 3, No. 2, 2007, pag. 52-61, ISSN 1584-918X, <http://uavsb.xhost.ro/papers/currentissue.php>,
16. V.E. Balas, E. Roventa, T. Spircu. *Fusion devices and changes of belief*, 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, <http://iospress.metapress.com/content/q0h6213h3k20/?sortorder=asc&v=condensed>
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, Bimonthly, ISSN: 1064-1246, IOS PRESS, NIEUWE HEMWEG 6B, AMSTERDAM, NETHERLANDS, 1013 BG
17. V.E. Balas, J. Fodor, A. Varkonyi-Koczy. *Guest-editorial*, 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. 1-2, <http://iospress.metapress.com/content/q0h6213h3k20/>
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, Bimonthly, ISSN: 1064-1246, IOS PRESS, NIEUWE HEMWEG 6B, AMSTERDAM, NETHERLANDS, 1013 BG
18. *Chee Peng Lim, Lakhmi C. Jain, Ngoc Thanh Nguyen, Valentina E. Balas*. *Guest-editorial: Special issue on advances in Computational intelligence paradigms and applications*, [Fuzzy Optimization and Decision Making, Volume 7, Number 3 / September, 2008](http://www.springerlink.com/content/t07557618474/?p=30d98a1880b64519b8727735c6f5c68e&pi=0), pag 215-217, <http://www.springerlink.com/content/t07557618474/?p=30d98a1880b64519b8727735c6f5c68e&pi=0>,
19. V. E. Balas, M. M. Balas. *Constant Time to Collision Platoons*, 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, http://www.journal.univagora.ro/?page=supp_isue2008

20. M. M. Balas, V. E. Balas. *World Knowledge for Control Application by Fuzzy-Interpolative Systems*, Int. J. of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844, Vol. III (2008), Suppl. issue: Proceedings of ICCCC 2008, pp. 28-32, 15-17 Mai 2008 Oradea, Romania,
http://www.journal.univagora.ro/?page=supp_isue2008
21. M.M. Balas, V.E. Balas. *Monoscopic CCD Cameras as Distance Sensors*, Proceedings of the Bio-Inspired Computational Methods Used for Difficult Problems Solving. Development of Intelligent and Complex Systems, BICS 2008, Romanian Academy, Bucharest and Petru Maior University Tg. Mures, 5-7 November 2008, ISSN 2065-0418, pag. 77-83.
22. V.E. Balas, M. M. Balas. *On the Switching Control*, Proceedings of the Bio-Inspired Computational Methods Used for Difficult Problems Solving. Development of Intelligent and Complex Systems, BICS 2008, Romanian Academy, Bucharest and Petru Maior University Tg. Mures, 5-7 November 2008, ISSN 2065-0418, pag. 108-113
23. Marius-Constantin Popescu, Onisifor Olaru, Valentina Balas, *Identification of the De-synchronization, Synchronization and Forced Oscillation Phenomenon of a Nonlinear System*, WSEAS TRANSACTIONS ON SYSTEMS AND CONTROL, ISSN: 1991-8763, Issue 4, Volume 4, April 2009, pag. 177-187,
<http://www.worldses.org/journals/control/control-2009.htm>
24. Marius-Constantin Popescu, Valentina E. Balas, Gheorghe Manolea, Liliana Perescu-Popescu, Nikos Mastorakis, *Theoretical and Practical Aspects of Heating Equation*, WSEAS TRANSACTIONS ON SYSTEMS AND CONTROL, WSEAS TRANSACTIONS on SYSTEMS AND CONTROL, ISSN: 1991-8763, Issue 8, Volume 4, August 2009, pag. 349-358
<http://www.worldses.org/journals/control/control-2009.htm>
25. I. Szeidert, O. Prostean, N. Budisan, I. Filip, V. E. Balas, G. Prostean, *Actual Situation and Perspectives on Wind Energy Usage in Banat Region*, WSEAS TRANSACTIONS on SYSTEMS AND CONTROL, ISSN: 1991-8763, Issue 8, Volume 4, August 2009, pag. 369-372,
<http://www.worldses.org/journals/control/control-2009.htm>
26. Marius-Constantin Popescu, Valentina E. Balas, Liliana Perescu-Popescu, Nikos Mastorakis, *Multilayer Perceptron and Neural Networks*, WSEAS TRANSACTIONS ON CIRCUITS AND SYSTEMS, ISSN: 1109-2734, Issue 7, Volume 8, July 2009, pag. 579-588, <http://www.worldses.org/journals/circuits/circuits-2009.htm>
27. V.E. Balas, L. C. Jain, World knowledge for sensors and estimators by models and internal models, Journal of Intelligent and Fuzzy Systems, [Volume 21, Number 1-2 / 2010](#), IOS Press, ISSN 1064-1246 (Print) 1875-8967 (Online), pp. 79-88, DOI 10.3233/IFS-2010-0437

Lucrari in conferinte

1. M. Bălaș, V. Bălaș, V. Crișan. *Dispozitiv de supraveghere selectivă și protecție a rețelelor trifazate cu nul izolat*. "Sesinea jubiliară Oradea, mai, 1993", Analele Universității Oradea, 1993, secț. Electrotehnică.
2. M. Bălaș, V. Bălaș. *Traductoare pt. măsurarea vitezei vagoanelor realizate în Arad*. Sesiunea de Comunicări Științifice a Univ. "Aurel Vlaicu" Arad, mai 1994 Secț. Material Rulant, pag. 65-68
3. M. Bălaș, V. Bălaș, I. Puie. *Metodă de măsurare automată a gradului de tasare al amestecurilor de formare crude*. Sesiunea de Comunicări Științifice a Univ. "Aurel Vlaicu" Arad, mai 1994 secț. Știința și Tehnologia Materialelor, pag. 90-95.
4. M. Bălaș, V. Bălaș. *Considerații referitoare la structura invertoarelor pentru iluminatul fluorescent al mijloacelor de transport.*, Buletinul sesiunii de comunicări științifice a cadrelor didactice, Acad. Navală "Mircea cel Bătrân", Constanța, mai 1995, vol. II pag. 543-546.
5. M. Bălaș, D. Stamboli, V. Bălaș. *Structuri ale instalațiilor de comandă a vagoanelor de călători, rezultate din ultimele fișe UIC*. Sesiunea de Comunicări Științifice a Univ. "Aurel Vlaicu" Arad, mai 1996 secț. Material Rulant, Vol. 7, pag. 153-158, ISBN 973-97708-0-0.
6. B. Pancan, L. Savici, M. Bălaș, V. Bălaș, N. Dincă. *Influența agenților de lucru asupra curbelor curent - tensiune la băile de nichelare lucioasă*. Sesiunea de Comunicări Științifice a Univ. "Aurel Vlaicu" Arad, mai 1996 secț. Protecția mediului și protecția anticorozivă, Vol 11, pag. 167-172.
7. V. Bălaș, D. Săbăilă. *Modelul unui traductor inteligent pentru măsurarea fără contact a lățimii țesăturilor*. Sesiunea de Comunicări Științifice a Univ. "Aurel Vlaicu" Arad, mai 1996, secț. Electrotehnică, Electronică, Automatizări, pag. 266 - 271, ISBN 973-97708-0-0.
8. M. Bălaș, V. Bălaș. *Modelarea matematică a unui vagon de călători cu aer condiționat*. Sesiunea de Comunicări Științifice ale Universității "Aurel Vlaicu" din Arad, Ediția a IV-a, "25 de ani de învățământ tehnic

superior arădean", 30-31 octombrie 1997, Vol VIII - Electrotehnică, Electronică și Automatizări, pag. 359–368, ISBN 973-98365-8-5.

9. M. Bălaș, V. Bălaș, C. D. Căleanu. *Reglatoarele aplicabile în instalațiile de condiționare a aerului din vagoanele de călători*. Sesiunea de Comunicări Științifice ale Universității "Aurel Vlaicu" din Arad, Ediția a IV-a, "25 de ani de învățământ tehnic superior arădean", 30-31 octombrie 1997, Vol VIII - Electrotehnică, Electronică și Automatizări, pag.369–378, ISBN 973-98365-8-5.

10. M. Bălaș, V. Bălaș. *Metode ale inteligenței artificiale aplicate în construcția vehiculelor moderne de cale ferată*. Sesiunea de Comunicări Științifice ale Universității "Aurel Vlaicu" din Arad, Ediția a IV-a, "25 de ani de învățământ tehnic superior arădean", 30-31 octombrie 1997, Vol VIII - Electrotehnică, Electronică și Automatizări, pag.379-386, ISBN 973-98365-8-5.

11. V. Bălaș, N. Matica. *Biblioteca virtuală - teamă și speranță, limite și posibilități*. Analele Universității "Aurel Vlaicu" din Arad, octombrie 2000, Seria Teologie, Fascicola: Teologie și Științe Umaniste, pag. 146-153.

12. M. Bălaș, V. Bălaș. *Autoadaptarea prin criteriul $\delta\varepsilon\delta\varepsilon$* . Analele Universității "Aurel Vlaicu" Arad, octombrie 2000, Seria Electrica, Fascicola Electrotehnică, Electronică și Automatizări, pag. 51-54, ISSN 1582-3377

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Proiecte

Experience in national and international programs:

Program/Project	Function	Period: from...to
Grant CNCSU cod 107, Polytechnic University of Bucharest	Collaborator	November 1999, University de Savoie, Annecy, France
Grant CNCSU cod 107, Polytechnic University of Bucharest	Collaborator	January 2001, , University de Savoie, Annecy, France
Grant CNCSIS - „Research fro implementation of fuzzy logic and neural network strategy based for fault detection and diagnosis with applications in the field of electric systems”	Collaborator with Politechnica University of Timisoara	2004-2005
Summer School “Soft Computing”, Arad-Moneasa 2003	Chief of program	8-- 15 July 2003
Summer School “Soft Computing”, Arad-Moneasa 2004	Chief of program	16 – 23 August 2004
Summer School “Soft Computing”, Arad-Moneasa 2005	Chief of program	21-29 July 2005
Summer School “Soft Computing”, Arad-Moneasa 2006	Chief of program	16-23 July 2006
Grant from Mitsubishi for PLC laboratory	Chief of project	May 2007
Travel grant from National Taiwan University of Science and Technology	Beneficiary	October 2007
Grant CNCSIS cod 203	Collaborator	March 2008
Grant PN II WE cod CNCSIS: 47 – Exploratory Workshop	Collaborator	May 2008

Detailed:

1. *Grant CNCSU Nr. 107 Devices, Circuits and Microsystems*, with Politechnica University of Bucharest, Cod: CNCSU, Nr. 107. V. E. Balas November 1999, visit and documentation fot PhD thesis in the field of smart sensors, LAMII laboratory, Annecy, Franța. Valoare: 1000\$
2. Contract: Electro-Pneumatics Automation,. Cod: 511/ 08.05.2000. For: PLASTOR SA Oradea. *Collaborator*- V. E. Balas. 2.000.000 ROL.
3. *Grant CNCSU Nr. 107 Devices, Circuits and Microsystems*, with Politechnica University of Bucharest, Cod: CNCSU, Nr. 107. V. E. Balas November 2001, visit and documentation fot PhD thesis in the field of smart sensors, LAMII laboratory, Annecy, Franța. Valoare: 1000\$
4. Contract: Study on the command systems. Cod: 352/7.02.2002. For: SC Industrial Tehnologic Robac Service SRL Lipova. *Collaborator* - V. E. Balas, : 770 EURO
5. Contract: Study of a measure method, Cod: 6/25.06. 2002. MOPEKA Timișoara, *Collaborator* - V. E. Balas. 300 EURO
6. *Organizing of International Summer School,„Soft Computing” – second edition, in English language, July 2003*, Responsible of project - V. E. Balas, 20.000.000 ROL.
7. *Grant CNCSIS „Research on strategies based on Fuzzy Neural Networks for the diagnosis of electric systems”*. July 2004. *Collaborator* - V. E. Balas, 800 EURO
8. *Organizing of International Summer School,„Soft Computing” – third edition, in English language, August 2004*, Responsible of project - V. E. Balas, 25.000.000 ROL.
9. Research grant with *SC CONTACT PLUS SRL Arad. „ Research on the development of new methods of knowledge fusion and applications”*. May 2005. „Aurel Vlaicu” University from Arad. Coordinator - V. E. Balas, 5.000.000 ROL.
10. Project to sponsor the International Workshop IEEE SOFA 2005, with MICROSOFT ROMANIA, August 2005, Coordinator - V. E. Balas, 1000 \$.
11. *Organizing of International Summer School,„Soft Computing” - four edition, in English language, July 2005*, Responsible of project - V. E. Balas, 80.000.000 ROL.
12. *Organizing of International Summer School,„Soft Computing” – five edition, in English language, August 2006*, Responsible of project - V. E. Balas, 30.000.000 ROL.
13. Research project: *A new device for Automation Laboratoty - Mitsubishi PLC*, September 2007, „Aurel Vlaicu” University from din Arad, Coordinator - Valentina E. Balas, 1600 EURO

14. International Grant – *Travel grant* offered by National Taiwan University of Science and Technology Invited conference in Taipei, Taiwan, October 2007, Valentina E. Balas, 3000 EURO.
15. Research project Nr. 05/12.12.2007 with SC Ovidiu Nicola SRL „*Research for a rain sensor*”, „Aurel Vlaicu” University from Arad, Coordinator Valentina E. Balas , 1.000 Ron
16. Research project Nr. 2726/22.05.2008 with SC Ready SRL „*Research on some applications of artificial intelligence in techniques* ”, „Aurel Vlaicu” University from Arad, Coordinator - Valentina E. Balas, 1.000 Ron
17. Grant PN – II WE Cod CNCISIS: 47, ANCS Nr. 316 / 09.04.2008, Exploratory Workshop „From natural language to soft computing: new paradigms of artificial intelligence”, 30.000 Ron, *Collaborator* – Valentina E. Balas, http://www.cncsis.ro/PNCIDI%20II/Ideii/2008/W Exploratorie/rezultate%20finale aplicatii%20de%20pana%20la%2031%20martie%202008_pt%20site.pdf
18. Grant CNCISIS tip PREC ISI - "Awarding the research results " PN-II-RU-PRECISI-2008, March 2008, Cod CNCISIS 203, Chief of project - V. E. Balas, 2000 RON, . position 169. http://www.cncsis.ro/PNCIDI%20II/Resursa%20umana/Premiere/Mar08/REZULTATE_MARTIE_2008.pdf

Afilieri la asociatii profesionale:

Member of The Romanian Association for Automation and Instrumentation from Romania – chef of the Arad section, <http://www.aair.org.ro/Structura.html>

Member of The Multidisciplinary Development Association - Timisoara.

Friend of ACRUPO (Association of Canadian Romanian University Professors, Ontario) Canada.

Member of The General Association of the Romanian Engineers, Vice-president a of the Arad section.

Member IEEE, Computational Intelligence Society since 2003, SMC – 2009, IA - 2009

Member IEEE, Communications Society since 2003

Member IEEE, Computer Society since 2007

Senior member IEEE from 2007

Committee member of the WCI (Woman in Computational Intelligence) <http://smile.ee.ncku.edu.tw/WCI/index.html> , 2006

Member EUSFLAT (European Society for Fuzzy Logic and Technology) since 2007, <http://www.eusflat.org/>

Member ACM – Association for Computer Machinery, USA, from 2008

Member in TC-Emergent Technologies IEEE Computational Intelligence Society.

Member in TC – Soft Computing IEEE Systems Man & Cybernetics

Limbi straine: Engleza, Franceza

Specializari:

1985 – Tool Machines Programming, CPLICM București

1991 – Graduate course Industrial Robots

1999 and 2001 Visiting professor at University de Savoia, Annecy, France.

Alte mentiuni:

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Editor in Chief of Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science, „Aurel Vlaicu” University from Arad, since **2004**.

Editor Proceedings of the 7th WSEAS International Conferences: Neural Networks, Fuzzy Systems, Evolutionary Computing, Accoustics & Music:Theory and Application, Mathematics and computers in Biology and Chemistry, Mathematics and Computers in Bussines and Economics, Automation and Information, **2006**, Cavtat, Croatia <http://www.wseas.us/e-library/conferences/2006cavtat/fs/index.htm> , **BDI indexed**

Guest Editor la **WSEAS Transactions on Information Science and Applications**, Issue 9, Volume 3, September **2006**, ISSN **1709-0832**, **BDI indexed**

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, **ISI indexed** <http://iospress.metapress.com/content/q0h6213h3k20/> <http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/b/Balas:V=E.html>

Editor-in-Chief la volumul Proceedings of International Symposium *Research and Education in Innovation Era*, Section 3, *Engineering Processes and Technology, Electrical*, Arad, 16-18 November **2006**, ISBN: 9978-973-752-110-1.

Member in International Committee to Analele Universitatii din Oradea/Fascicula

ELECTROTEHNICA, Secțiunea: Știința Calculatoarelor și Sisteme de Control, ISSN 1841-7213,
http://electroinf.uoradea.ro/facultate/fascicola_ssc.html, Revista **CNCISIS B**.

Member in Editorial Board to *International Journal of Intelligent Decision Technologies*, ISSN: 1872-4981, IOS Press, Nieuwe Hemweg 6B, 1013 BG Amsterdam, The Netherlands
<http://www.iospress.nl/loadtop/load.php?isbn=18724981>, 2007, **BDI indexed**

Editorial Review Board Members to UBICC journal (the Ubiquitous Computing and Communication Journal), 2007, Volume 4, ISSN 1992-8424,

Co-Guest Editor (Chee Peng Lim, Lakhmi C. Jain, Ngoc Thanh Nguyen and Valentina E. Balas) pentru Special Issue la *Fuzzy Optimization and Decision Making, A Journal of Modeling and Computation Under Uncertainty*, ISSN: 1568-4539 (Print) 1573-2908 (Online), Publisher: Springer Netherlands, 2008
http://www.ise.ncsu.edu/fangroup/fuzzy_dir/FODM.html, Volume 7, Number 3 / September, 2008, DOI 10.1007/s10700-008-9031-4, pages 215-217, <http://www.springerlink.com/content/58h8510070464663/>, **DPLB (Computer Science Bibliography) indexed.**

Member in Editorial Board la *Computational Intelligence and its Applications (COMIA)* Book Series-Information Science Publishing, USA, ISBN: 1935-3731
<http://www.igi-pub.com/bookseries/details.asp?id=5>, http://www.igi-pub.com/bookseries/details.asp?ID=5&v=bs_editorial, 2008, **BDI Indexed.**

Co-Editor to *Computational Intelligence Paradigms, Innovative Applications Series: Studies in Computational Intelligence*, 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, **DPLB (Computer Science Bibliography) indexed.**

Co-Editor in Chief to *International Journal of Advanced Intelligence Paradigms (IJAIIP)*, ISSN (Online): 1755-0394 - ISSN (Print): 1755-0386, INTERSCIENCE PUBLISHER,
<http://www.inderscience.com/browse/index.php?journalCODE=ijaiip>, 2008

Forward by Prof. Lotfi A. Zadeh, <http://www.inderscience.com/editorials/f842103796111512.pdf>

Member in Editorial Board la *International Journal of Granular Computing, Rough Sets and Intelligent Systems (IJGRSIS)*, ISSN (Online): 1757-2711 - ISSN (Print): 1757-2703, INTERSCIENCE PUBLISHER, <http://www.inderscience.com/browse/index.php?journalCODE=ijgersis>, 2008

Asociat Editor to *Journal of Computer Science and Control Systems*, ISSN code 1844-6043, Editura Universității din Oradea, 2008,
<http://electroinf.uoradea.ro/reviste/default.htm>, <http://electroinf.uoradea.ro/reviste/default.htm>

Redactor to *Revista de informatică și informatică industrială*, editată de Fundația Culturală Științifică *General Gheorghe Magheru* din Tîrgu Jiu, ISSN 1843-6978, din 2008.

Guest Editor to *Studies in Computational Intelligence*, Berlin: Springer 2009 – volume: “*Soft Computing Based Modeling in Intelligent Systems*” 2009, **DPLB (Computer Science Bibliography) indexed.**
<http://www.springer.com/engineering/book/978-3-642-00447-6>

Member in Editorial Board la *International Journal of Reasoning-based Intelligent Systems (IJRIS)* ISSN (Online): 1755-0564 - ISSN (Print): 1755-0556, INTERSCIENCE PUBLISHER,
<https://www.inderscience.com/browse/index.php?journalID=267>, 2009

Guest Editor, 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: Applications in Engineering and Technology, IOS Press, ISSN 1064-1246 (Print) 1875-8967 (Online), Guest Editorial: *Theoretical advances and applications of intelligent paradigms* pp. 1-2, **ISI indexed**

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Editor to **International Journal of Digital Content Technology and its Applications (JDCTA)**, ISSN 1975-9339, Korea, 2009, <http://www.aicit.org/jdcta>, <http://www.aicit.org/jdcta/page08.html> (indexata DBLP)

Guest Editor, Chee Peng Lim, Lakhmi C. Jain, George A. Tsihrintzis, Maria Virvou, **Valentina Emilia Balas**, la *International Journal of Intelligent Defence Support Systems*, Volume 2, Number 2, 2009, Special Issue:

Intelligent Modelling and Data Analysis Techniques, ISSN (Online): 1755-1595 - ISSN (Print): 1755-1587,
<http://www.inderscience.com/browse/index.php?journalCODE=jjids>

Member in Scientific Board to Acta Technica Napocensis, Technical University of Cluj-Napoca, Romania, Faculty of Electronics, Telecommunications and Information Technology, Volume 50, Number 1, 2009, ISSN 1221 – 6542.

Organizator de Conferinte, Workshopuri

Organizer and General Co-Chair for International Workshop IEEE – SOFA 2005, 27-30 August 2005, Arad – Szeged, http://www.ieee-sofa.net/03_chair.html, 29 July-1 August 2009, Szeged-Arad.

Session Chair to Plenary Session of Prof. Lotfi A. Zadeh at IEEE International Workshop SOFA 2005, http://www.ieee-sofa.net/07_tentativeprogram.html

Organizer of a 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 Cravat, Croatia, June 12-14, 2006, <http://www.worldses.org/conferences/2006/croatia/fs>

Organizer of a 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 for two invited sessions to RASC 2006 <http://www.rasc2006.org.uk/program.htm>

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

Organizer of the section 3, Engineering Process and Technology, Electrical, Mechanical and Textile Engineering la International Symposium *Research and Education in Innovation Era, 16-18 November, Arad, Romania, 2006*.

Organizer of a International Workshop on Probability and Fuzziness and Their Role in Soft Computing. Theory and Applications, June 19-20, 2007, Arad, Romania, with the participation of Prof. Dan Ralescu de la Universitatea din Cincinatti, USA, <http://www.trivent.hu/Arad2007/index.html>.

Organizer and General Co-Chair for 2nd IEEE International Workshop on Soft Computing Applications - SOFA 2007, 21-23 August 2007, Gyula -Hungary / Oradea – Romania, <http://www.ieee-sofa2007.org/>,

Co-Chair together with Prof. Lotfi Zadeh to the conference „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, <http://www.iccc.univagora.ro/?page=home>

Organizer of a Special Session at 5th European Conference on Intelligent Systems and Technologies, ECIT 2008, 10 - 12 July 2008, Iasi, Romania <http://www.iit.tuiasi.ro/ecit2008/index.html>

Organizer of a Special Session at KES 2008: Novel Foundation and Applications of Intelligent Systems, 12th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, 3-5 September 2008, Zagreb, Croatia, <http://kes2008.kesinternational.org/>

Organizer and General Co-Chair for 3rd International Workshop on Soft Computing Applications - SOFA 2009, July 29-August 1, 2009, Szeged-Hungary /Arad – Romania, <http://www.ieee-sofa2009.org/>

Membră in Comitete Internationale

Member in International Program Committee la EMES'05 Oradea, 2005.

Member in Technical Program Committee la ICM 2006 – IEEE International Conference on Mechatronics, July 3-5, 2006, Budapest, <http://bmf.hu/conferences/icm2006/committees.html>

Member in Technical Program Committee la INES 2006, 10th International Conference on Intelligent Engineering Systems 2006, London, UK, June 26-28, 2006, <http://www.ines-conf.org/ines-conf/2006comm.htm>

Member in International Program Committee al RSEE'2006 6th International Conference on RENEWABLE SOURCES AND ENVIRONMENTAL ELECTRO-TECHNOLOGIES, 8 - 10 June 2006, Oradea , Romania.

Member in Scientific Committee la ECIT 2006 – 4th European Conference on Intelligent Systems and Technologies, 21-23 Septembrie 2006, Iasi, Romania, <http://www.etc.tuiasi.ro/sibm/ECIT2006/committees.html>

Member in Technical Program Committee, ISCHII'07 3rd International Symposium on Computational Intelligence and Intelligent Informatics, March 28-30, 2007, Agadir, Morocco, <http://www.trivent.hu/ISCHII2007/Committees.html>

Member în International Program Committee la EMES'07 Oradea, 9th International Conference on ENGINEERING OF MODERN ELECTRIC SYSTEMS, 24 - 26 May 2007, Oradea , Romania, http://electroinf.uoradea.ro/facultate/comp_session.html

Member in Advisory International Committee la 8th WSEAS International Conference on FUZZY SYSTEMS (FS '07), Vancouver, Canada, June 18-20, 2007 <http://www.wseas.org/conferences/2007/canada/fs/committee.htm>

Member in Technical Program Committee la INES 2006 11th IEEE International Conference on Intelligent Engineering Systems 2007, Budapest, Hungary, June 29-July 2, 2007,

<http://www.trivent.hu/INES2007/committees.html> <http://www.ines-conf.org>

Member in Technical Program Committee la ICC2007, 5th IEEE International Conference on Computational Cybernetics, October 19-21, 2007, Gammarth, Tunisia,
<http://www.trivent.hu/ICC2007/committees.html>

Member în Program Committee at Symposium "Pionierii informaticii romanesti", la 50 de ani de la aparitia primului calculator romanesc (CIFA-1, 1957) si la 85 de ani de la nasterea creatorului sau, Victor Toma din 8 decembrie 2007 de la Universitatea Agora Oradea, <http://www.bihon.ro/stiri/oradea-bihor/articol/simpozion-dedicat-pionierilor-informaticii/cn/news-20071205-06422704>

Member în Technical Program Committee la INES 2007 12th IEEE International Conference on Intelligent Engineering Systems 2008, February 25-29, 2008, Caribbean Sea,
<http://www.trivent.hu/INES2008/committees.html>

Member in International Committee of the conference - The 19th Midwest Artificial Intelligence and Cognitive Science Conference, MAICS 2008, April 12 and 13, 2008 in Cincinnati, OH,
<http://penguin.ewu.edu/MAICS2008/> ;

Member in Program Committee and Program Section Chairs la The IEEE 2nd International Conference on Computers, Communications & Control (ICCC 2008), Băile Felix Spa, Romania, 15-17 May 2008,
<http://www.iccc.univagora.ro/?page=thcom> http://smile.ee.ncku.edu.tw/WCI/Event_ICCC2008.html

Member in Scientific Committee at AFASES 2008 – Sesiunea de Comunicări Științifice cu participare internațională „Cercetare Științifică și Educație în Forțele Aeriene”, 16-17 Mai 2008, Brașov, Romania,
<http://www.afahc.ro/sesiune.html>

Member in Program Committee la WCCI2008 Workshop Applications of Computational Intelligence to Benefit Society, Hong Kong, 7th June 2008,
<http://www.doc.mmu.ac.uk/RESEARCH/Intelgrp/WCCIWorkshop/committee.htm>

Member in International Committee at W O R L D C O M P ' 0 8 , The 2008 World Congress in Computer Science, Computer Engineering, & Applied Computing, ICAI'08, The 2008 International Conference on Artificial Intelligence, Las Vegas, Nevada, USA, July 14-17, 2008, <http://www.world-academy-of-science.org/worldcomp08/ws/conferences/icai08/committee>

Member in International Technical Committee la ICETET – 08, International Conference on Emerging Trends in Engineering and Technology, July 16-18 2008, Nagpur, India,
<http://209.85.129.104/search?q=cache:NXSvFAK2DicJ.icetet.org/+ICETET-+08&hl=ro&ct=clnk&cd=1&gl=ro>

Member in International Program Committee at **5th European Conference on Intelligent Systems and Technologies, ECIT 2008**, 10 - 12 July 2008, Iasi, Romania
<http://www.iit.tuiasi.ro/ecit2008/committees.html>

Member in International Reviewers Committee pentru KES 2008, 12th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, 3-5 September 2008, Zagreb, Croatia,
<http://kes2008.kesinternational.org/cmsIRCdisplay.php>

Member in Scientific Committee of International Workshopului BICS '2008 Bio-Inspired Computational Methods Used for Difficult Problems Solving. Development of Intelligent and Complex Systems Tg. Mures, Romania November 5-7, 2008, http://davos.science.utgm.ro/bio_computation/scientific_committee.html

Member in Scientific Committee of International Workshop CANS '2008 Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing Tg. Mures, Romania, November 8-10, 2008
http://davos.science.utgm.ro/complex_systems/scientific_committee.html

Member in WASET (World Academy of Science, Engineering and Technology) Scientific and Technical Committee on Natural and Applied Sciences, din 2008,
<http://www.waset.org/NaturalandAppliedSciences.php?page=6>

Member in Scientific Committee to SETIT 2009, Sciences of Electronics, Technologies of Information and Telecommunications, Hammamet, 22-26 March 2009, Tunisia,
<http://www.setit.mu.tn/?main=1&pg=commitee>

Member in Technical Program Committee la INES 2009 – 13th IEEE International Conference on Intelligent Engineering Systems, 16-18 April 2009, Barbados.
http://www.ines-conf.org/ines-conf/INES2009_CFP.pdf

Member in International Program Committee to KES-IDT-09 - KES Symposium on Intelligent Decision Support Technologies, 23rd and 25th April 2009 in Himeji, Japan,
<http://idt-09.kesinternational.org/cmsIPCdisplay.php>

Member in International Committee of International Conference on Engineering of Modern Electric Systems, EMES '09, Mai 2009, Oradea, <http://icl.kpi.fei.tuke.sk/files/CfpEMES2009.pdf>

Member in International Scientific Committee to AFASES 2009, The International Session of XI-th Scientific Papers „Scientific Research and Education in the Air Force”, 20 – 22 May, 2009, Brasov, Romania,
<http://www.afahc.ro/sesiune/sesiune.html>, <http://www.afahc.ro/sesiune/INVITATIE%20AFASES%202009.pdf>

Member in International Advisory Board, SACI 2009, 5th International Symposium on Applied Computational Intelligence and Informatics, May 28-29 2009, Timisoara, Romania.
<http://bmf.hu/conferences/saci2009/committees.htm>

Member in the Program Committee la The 28th North American Fuzzy Information Processing Society Annual Conference, NAFIPS 2009, June 14-17, 2009, Cincinnati, OH, USA,

<http://nafips2009.ewu.edu/wiki/index.php/Committee>

Member in Committee members la 3rd NISS 2009, International Conference on New Trends in Information and Service Science, June 30- July 2, Beijing, China.

<http://www.aicit.org/niss/committee.html>

Member in Committee la NCM 2009, 5th International Joint Conference on INC (International Conference on Networked Computing), IMS (International Conference on Advanced Information Management and Service) and IDC (International on Digital Content, Multimedia Technology and its Applications), August 25-27, Seoul – Korea.

<http://www.aicit.org/ncm/committee.html>

Member in International Program Committee WISP 2009, IEEE International Workshop on Intelligent Signal Processing, 26-28 August 2009, Budapest, Hungary. <http://www.trivent.hu/WISP2009/index.php?p=chairs>

Member in Program Committee to The Fifth International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIHMSP2009) Sep.12-14, 2009, MIELPARQUE, Kyoto, Japan.

<http://www.iipl.is.ritsumei.ac.jp/iihmsp2009/information/committee.html>

Member in International Program Committee to KES 2009 - 13th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, 28, 29 and 30 September 2009 Santiago, Chile, <http://kes2009.kesinternational.org/cmsIPCdisplay.php>

Member in Technical Program Committee to ISCIII 2009, 4th International Symposium on Computational Intelligence and Intelligent Informatics, October. 21-25, 2009, Egypt.

Member in Scientific Committee la International Symposium on Understanding Intelligent and Complex Systems, 22-23 October 2009, Petru Maior University, Târgu-Mureș, Romania, <http://uics.upm.ro/>

Member in International Committee for ICCIT 2009 – International Conference on Computer Sciences and Convergence Information Technology, November 24-26 Seoul, Korea,

<http://nms.dongguk.ac.kr/iccit09/internationalcommittees.html>

Member in International Program Committee and Member in Program Committee for "Data Mining", ICETET-09, the 2nd International Conference on Emerging Trends in Engineering and Technology (ICETET-09) December 16–18, 2009, Nagpur, India,

http://icetet.org/prog_committee.html

Member in International Program Committee la International Conference on Computers, Communications and Control ICCCC 2010, Băile Felix, Oradea, România, May 12-16, 2010,

<http://www.iccc.univagora.ro/organization/program-committee>

Recenzor

- for papers at the International Conference on Information Processing and Management of Uncertainty in Knowledge-based Systems, IPMU2004, 2006, 2008, IEEE SOFA 2005 Arad-Szeged; WSEAS 2006 and 2007 Cavtat, Croatia; KCC 2006, Orlando, Florida; RASC 2006, Canterbury, SOFA 2007, Agricom 2007, INES, ICETET 2008, ICETET 2009 India, SOFA 2009, SACI 2009, etc.
- for International Journals: International Journal of Hybrid Intelligent Systems, Information Fusion, IEEE Transactions on Fuzzy Systems, Journal of Intelligent and Fuzzy Systems, Applied Informatics, Neural Computing and Applications, Neurocomputing.

Chair la Sesiunea in Panel PAN4: Fuzzy Logic Control : Present, Future, and New Directions

Wednesday, July 25, 2:00PM-3:30PM, **Chair:** Hani Hagra and **Valentina Balas**

Panelists: Piero Bonissone, Gary Feng, Dimitar Filev, Hans Geering, Jan Jantzen, Reza Langari, Abe Mamdani, Hiroshi Nakajima, Michio Sugeno, Kazuo Tanaka

Panelist la o sesiune PAN4 of the Conference FUZZ-IEEE 2007, London,

<http://www.fuzzieee2007.org/panels.php>

Panelist la sesiunea PAN6: Decision Analysis and Decision Support - The Need for Fuzzy Logic and Soft Computing

Tuesday, July 24, 5:15PM-6:30PM, **Chair:** Janusz Kacprzyk

Panelists: **Valentina Balas**, Christer Carlsson, Shyi-Ming Chen, Raija Koivisto, Lotfi Zadeh

Conferințe invitate:

17 august 2004 – invited conference to Summer School Arad-Moneasa, 2004 – **Valentina E. Balas**, “40 de ani de la apariția Logicii Fuzzy și legătura cu Teoria Sistemelor”

24 iulie 2005 – invited conference to Summer School Arad-Moneasa, 2005 – **Valentina E. Balas**, „Estimation de ressources dans un budget”.

19 iulie 2006 – two invited conferences to Summer School Arad-Moneasa, 2006 – **Valentina E. Balas** „Voice Emotional Evaluation” și „Biometrics”.

V. E. Balas - International Workshop on “System Science and Engineering”, 2nd November 2007, Taipei, Taiwan, Department of Electrical Engineering, National Taiwan University of Science and Technology – **Valentina E. Balas** *Design of Intelligent Information Systems: Reasoning and Practical Applications*, Travel Grant http://www.ee.ntust.edu.tw/SSE/SSE_workshop.htm

Invited conference VIPSI = VIP Symposia on Internet related research with elements, Internetconferences.net, IPSI Belgrad, 2008, 3-6 April 2008, Opatia, **Valentina E. Balas**, *Knowledge Engineering and Practical Applications at "Aurel Vlaicu" University of Arad*, <http://internetconferences.net/ipsi/specific.php?spec=267>
<http://internetconferences.net/ipsi/conference.php?conf=80>

Invited conference ICCCC 2008, International Conference on Computers, Communications and Control, Felix Spa Romania, May 15-17 2008, *Constant Time to Collision* Platoons, **Valentina E. Balas**, Marius M. Balas <http://www.iccc.univagora.ro/?page=acceptedpapers> Full text is published in I. Dzitac, F.G. Filip, M.-J. Manolescu (eds), Proceedings of ICCCC 2008, in IJCCC, Vol.III (2008), suppl. issue, pp. 33-39, ISI.

Invited conference ICCCC 2008, International Conference on Computers, Communications and Control, Felix Spa Romania, May 15-17 2008, *World Knowledge for Control Applications by Fuzzy-Interpolative Systems*, Marius M. Balas, **Valentina E. Balas**, <http://www.iccc.univagora.ro/?page=acceptedpapers> ; Full text is published in I. Dzitac, F.G. Filip, M.-J. Manolescu (eds), Proceedings of ICCCC 2008, in IJCCC, Vol.III (2008), suppl. issue, pp. 28-32, ISI.

Invited conference 7th International Conference on Global Research and Education, Inter-academia, 15-18 September, 2008, Pecs, Hungary, **Valentina E. Balas**, Marius M. Balas, *The Educational Aspect of the Fuzzy-Interpolative Systems*, <http://www.trivent.hu/IA2008/Program.html>

Invited conference, Universitatea din Győr – Szechenyi Istvan Egyetem, 23 Martie 2009, Győr, Hungary, **Valentina E. Balas**, *World knowledge for sensors by internal models and fuzzy techniques*, <http://mtk.sze.hu/content/view/13/20/lang.hu/>, <http://mtk.sze.hu/content/view/13/20/lang/en/>

Invited conference, **Valentina E. Balas**, *Fuzzy Techniques for Sensors*, în Recent Advances in Fuzzy Systems, Proceedings of the 10th WSEAS International Conference on Fuzzy Systems (FS '09), Prague, Czech Republic, March 23-25, 2009, Plenary Lecture 2, pag.10, ISBN: 978-960-474-066-6, ISSN: 1790-5109, **BDI Indexed**, <http://www.wseas.org/conferences/2009/prague/fs/index.html>

Conferință invitată, **Valentina E. Balas**, Marius M. Balas, *A Sustainable Feeding System for our Future: the Passive Greenhouse*, Proceedings of the WSEAS International Conference, 11th WSEAS International Conference on Sustainability in Science Engineering (SSE '09), Timisoara, Romania, May 27-29, 2009, pag. 15.

Alte activitati

- She invited Professor Lotfi A. Zadeh from Berkeley University California in Romania and has organized the ceremony for the DrHC of Aurel Vlaicu University of Arad in 03.07.2003.
- She invited Prof. Michio Sugeno in Romania at „Aurel Vlaicu” University of Arad and has organised three seminars in November 2006.
- She invited Professor Veljko Milutinovic from Belgard University at „Aurel Vlaicu” University of Arad and has organised a seminar in May 2007.
- She invited Prof. Laszlo Koczy from Budapest University and has organised a seminar in May 2008.
- She invited Professor Lakhmi C. Jain from South University of Australia – Adelaide at „Aurel Vlaicu” University of Arad and has organised a seminar in August 2008.
- She co-organized the II, III și IV-th editions of the Summer School of Arad - with international participation, in English, at Arad and Moneasa in 2003, 2004, 2005 and 2006 by projects supported by the County Council Arad - the Culture Centre.
- In 2006 she was nominated in one commission of doctoral thesis at Politehnica University of Timisoara.
- In 2008 she was nominated as referent in a commission of doctoral thesis in India.
- She is coordinating the Automate and Industrial Software Dpt. of the Engineering Faculty of Aurel Vlaicu University of Arad.
- Award: Diploma from IEEE Romania Section – 2005
- Award: Diploma from IEEE Romania Section – 2007

- Award: Diploma from IEEE Romania Section – 2009
- septembrie 2007 – CHC₆₁ - Honorable Mention Award, from The IEEE Computer Society Web Programming Competition, for the project „50 Years of Computing in Romania”

Associate Professor **Valentina E. Balas**, Ph.D.

Arad, 12.04.2010