

**EUROPEAN
CURRICULUM VITAE
FORMAT**



INFORMATII PERSONALE

Name si prenume

VALENTINA EMILIA BĂLAȘ

Adresa

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Nationalitate

Română

Data nasterii

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 Revoluiei 310130 Arad
Educatie

Asistent, Sef de lucrari, Conferentiar Universitar, Profesor universitar

Sustinerea cursurilor la disciplinele Electronica, Teoria Sistemelor, Automatizarea proceselor textile, Masurari senzori si traductoare, Inginerie Biomedicala, Circuite Integrate Analogice, Sisteme Dinamice cu Evenimente Discrete, Inteligenta artificiala, Standarde in Automatica – ciclul licenta si Soft Computing, Complemente de Teoria Sistemelor, Sisteme Inteligente, Instrumentatie virtuala – ciclul Master.

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

Membu in Consiliul Profesorat al Facultatii de Inginerie (2000-2016)

Membu al Senatului Universitatii (2000-2008), (2012-2016)

Director al Centrului de Cercetare Sisteme Inteligente din aprilie 2009

Membra a Comisiei de Etica 2014-2016

Presedinta a Comisiei de Etica a UAV din ianuarie 2016 pana în februarie 2018

Membra in Consiliul Stiintific al Universitatii Aurel Vlaicu din Arad din ianuarie 2016
Director Departament pentru Relatii Internationale, Programme si Proiecte 01.04.2017-30.06.2024
Profesor abilitat din iunie 2018 in domeniul Ingineria Sistemelor,
Membra in IEEE Public Policy Committee on ICT, colaborare pentru documentele legate de IA elaborate de UE, 2021-2022
Membru asociat al Academiei Oamenilor de Stiinta din Romania din 2023

A. 2. EXPERIENTA PROFESIONALA

- Perioada (de la – pana la) 1984-1993
- Numele si adresa angajatorului Centrul de Cercetare Stiintifica si Inginerie Tehnologica pentru Vagoane Arad
- Tipul activitatii sau sectorul de activitate Industrie
- Functia sau postul ocupat Inginer proiectant, Sef colectiv tehnic, Secretar al Comitetului Roman de Standardizare Nr. 144.
- Principalele activitati si responsabilitati Proiectare-cercetare in cadrul unor proiecte realizate de Atelierul Utilaje al CCSIT Vagoane Arad

A. 3. EXPERIENTA PROFESIONALA

- Perioada (de la – pana la) 1980-1984
- Numele si adresa angajatorului Aeroportul Oradea, Calea Aradului Nr. 80, Jud. Bihor
- Tipul activitatii sau sectorul de activitate Transport aerian
- Functia sau postul ocupat Adjunct al Sefului Serviciului Protectia Navigatiei Aeriene
- Principalele activitati si responsabilitati Intretinere, reparatie, calibrare a aparaturii de radio-navigatie
Coordonator Metrolog in cadrul Aeroportului Oradea

B. 1. EDUCATIE SI FORMARE

- Perioada (de la – pana la) 1995-2003
- Numele si tipul institutiei de invatamant Universitatea Politehnica Timisoara
Educatie
- Domeniul studiat/aptitudini ocupationale Inginerie Electronica si Telecomunicatii
- Tipul calificarii/diploma obtinuta Doctor
- Nivelul de clasificare a formei de instruire/invatamant Acordarea distinctiei Cum laude

B. 2. EDUCATIE SI FORMARE

- Perioada (de la – pana la) 1975-1980
- Numele si tipul institutiei de invatamant Institutul Politehnic „Traian Vuia” din Timisoara, Facultatea de Electrotehnica, Specializarea Electronica si Telecomunicatii
Educatie
- Domeniul studiat/aptitudini ocupationale Inginerie Electronica si Telecomunicatii
- Tipul calificarii/diploma obtinuta Inginer Diplomat
- Nivelul de clasificare a formei de instruire/invatamant 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 ZECE EDITII PENTRU WORKSHOPUL INTERNATIONAL SOFA 2005, 2007, 2009, 2010, 2012, 2014, 2016, 2018, 2020 si 2022.
- RESPONSABIL AL SECTIEI DE SAH A CLUBULUI SPORTIV UNIVERSITAR „AUREL VLAICU” ARAD (2000-2010)
- ORGANIZAREA SI COORDONAREA A NOUA EDITII (2001-2009) ALE OPENULUI INTERNATIONAL DE SAH „MEMORIAL IVAN HALIC” ARAD.
- VICEPRESEDINTA A AGIR FILIALA ARAD DIN 2005, IAR DIN 2017 PRESEDINTA A FILIALEI AGIR ARAD
- PRESEDINTA A ASOCIATIEI DE AUTOMATIZARI SI INSTRUMENTATIE DIN ROMANIA, FILIALA ARAD DIN 2005
- PRESEDINTA A FILIALEI SRAIT ARAD – SOCIETATEA ROMANA DE AUTOMATICA SI INFORMATICA TEHNICA DIN 2010
- MEMBRU FONDATOR AL ASOCIATIEI ROMANE DE INTELIGENTA ARTIFICIALA AAIR
- MEMBRA A ASOCIATIEI EUROPENE DE SOFT COMPUTING – EUSFLAT, RESPONSABILA CU RECRUTAREA MEMBRILOR 2013-2014.
- VICEPRESEDINTE (RESPONSABIL CU PREMIILE) AL IFSA – ASOCIATIA INTERNATIONALA PENTRU SISTEME FUZZY (2013-2015)
- SECRETARA A CONSILIULUI GUVERNARII A FORUMULUI PENTRU MATEMATICA INTERDISCIPLINARA, INDIA (2013-2017)

C.6. APTITUDINI SI COMPETENTE TEHNICE

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

Lucrari elaborate si/sau publicate:

- 15 carti si capitole de carte internatională
- 5 carti si capitole de carte nationala
- Peste 100 carti editate sau de autor in editiurile Springer, Elsevier, CRC Press.
- Peste 50 de conferinte invitate in India, China, Taiwan, Japonia, Singapore, USA, Ungaria, Pakistan, Maroc, Iran, Azerbaijan, Cehia, Tunisia, Liban, Franta, Qatar, Portugalia, Romania
- Peste 400 de lucrari stiintifice publicate in tara si strainatate in reviste si volumele unor conferinte din care:
- Peste 260 titluri indexate in baza de date ISI Thomson
- 474 titluri indexate in baza de date SCOPUS H index=30

Google Scholar H index = 41,
<https://scholar.google.com/citations?user=XaktX0wAAAAJ&hl=en&oi=ao>
[Scopus Author ID: 9279071000](#)
[Loop profile: 116182](#)
[ResearcherID: F-4525-2010](#)

- RG - <https://www.researchgate.net/profile/Valentina-Balas>

Proiecte de cercetare:

- Peste 50 de proiecte realizate la CCSIT Vagoane Arad in calitate de sef de proiect
- Peste 50 de travel granturi
- 4 proiecte castigate prin competitie internationala si 43 de proiecte castigate prin competitie pe plan national ca si responsabil de proiect
- Membra in echipa la 3 granturi internationale
- Membra in echipa la 6 granturi nationale

Editor sef la 3 jurnale indexate in baze de date internationale
Membru in Bordul Editorial la 10 jurnale ISI si la 42 de jurnale BDI
Recenzor la peste 40 de jurnale ISI

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

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

Evaluator pentru burse „Nicolae Titulescu”
Evaluator ARACIS
Evaluator CNCISIS
Evaluator UEFISCDI – Proiecte Solutii 2017
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
Co-Chair al chapterului IEEE CIS Romania din 2012
Responsabil cu Voluntariatul la sectia IEEE Romania din 2021
Membră WCI – Woman in Computational Intelligence din 2006
Membră AAIR din 2005, Presedinta Filialei Arad
Membră AGIR din 2005, Presedinta Filialei Arad din 2016
Membra SRAIT din 2010, Presedinta Filialei Arad
IEEE Senior Member din 2007
Membră EUSFLAT European Society for Fuzzy Logic and Technology din 2007
Membra in Comitetul Tehnic Fuzzy Systems de la IEEE CIS
Chair of the TF 14 in TC – Emergent Technologies IEEE CIS
Membră in Comitetul Tehnic Soft Computing de la IEEE SMC
Membra in Technical Committee on Brain Machine Interface de la IEEE SMC, Noiembrie 2014
Membră ACM - Association for Computing Machinery din 2008
Membră IEEE IES (Industrial Electronics) si 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 SIAM - Society for Industrial and Applied Mathematics 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. Lakhmi C. Jain,
Founder KES International | <http://www.kesinternational.org/organisation.php>
Visiting Professor | Bournemouth University, UK,
Adjunct Professor | University of Canberra, Australia,
Email - jainlakhmi@gmail.com ; Jainlc2002@yahoo.co.uk

24.09.2024

Prof.univ.habil.dr.ing. Valentina E. Balas



ANEXA

L I S T A

lucrărilor științifice și a contractelor de cercetare

A. **Teza de doctorat** : „*Senzori Inteligenți cu Model Intern și Tehnici Fuzzy*”, Universitatea „Politehnica” Timișoara, Conducător Științific Prof. dr. ing. Mircea Ciugudean, în domeniul **Inginerie Electronică și Telecomunicații**, susținută în 13.06.2004 la Universitatea „Politehnica” Timișoara, Diplomă de doctor: Seria C, Nr. 0004886/13019 din 22.09.2003, în baza Ordinului Ministrului Educației și Cercetării nr. 4741/25.08.2003

B. Cărți și capitole în cărți

Edizioni internaționale
1. Rejeeb Dey, Goshaidas Ray, Valentina Emilia Balas, Stability and Stabilization of Linear and Fuzzy Time-Delay Systems, A Linear Matrix Inequality Approach, Springer, 2018, ISBN 978-3-319-70147-9, 308 pag. http://www.springer.com/gp/book/9783319701479
2. Marius M. Bălaș, Valentina E. Bălaș – 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, 2009, http://www.springerlink.com/content/n2jvt13463n5pj37/
3. Marius M. Bălaș, Valentina E. Bălaș – 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, pag. 219–231, 2009, Springer, http://www.springer.com/engineering/book/978-3-642-01884-8 .
4. Nicolae Popescu-Bodorin, Valentina E. Bălaș, Learning Iris Biometric Digital Identities for Secure Authentication. A Neural-Evolutionary Perspective Pioneering Intelligent Iris Identification, 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, http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-23228-2
5. Valentina E. Bălaș, Iulia Moțoc, Alina Barbulescu, Combined Haar-Hilbert and Log-Gabor Based Iris Encoders, 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. http://link.springer.com/book/10.1007/978-3-642-28959-0/page/1
6. Valentina E. Bălaș, Marius M. Bălaș, Fuzzy Systems towards Field Applications, Rudolf Seising, Enric Trillas, Claudio Moraga, and Settimo Termini (eds.), On Fuzziness. A Homage to Lotfi A. Zadeh, Springer Verlag, Berlin, New York, 2013, Volume 216, Chapter 25, pag. 189-195, http://link.springer.com/book/10.1007/978-3-642-35641-4/page/1 , http://link.springer.com/chapter/10.1007/978-3-642-35641-4_3#page-1
7. Ahmad Taher Azar and Valentina E. Bălaș, Classification and Detection of Diabetic Retinopathy, Advances in Intelligent analysis of Medical Data and Decision Support Systems, Studies in Computational Intelligence, Springer, 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.
8. Ahmed T. Azar, Valentina E. Bălaș, Teodora Olariu, Classification of EEG-Based Brain-Computer Interfaces, Springer, Advanced Intelligent Computational Technologies and Decision Support Systems, <u>Barna Iantovics, Roumen Kountchev</u> (Eds.) in <u>Studies in Computational Intelligence</u> , ISBN: 978-3-319-00466-2 (Print) 978-3-319-00467-9, Volume 486, 2014, pag. 97-106.
9. Mousumi Kumar, Valentina E. Balas, Bijay Baran Pal , Using Fuzzy Goal Programming with Penalty Functions for Solving EEPGD Problem via Genetic Algorithm, IGI Global, Handbook of Research on Natural Computing for Optimization Problems Chapter 34, pag. 847-869, ISBN 9781522500582, DOI: 10.4018/978-1-5225-0058-2.ch034, 2016
10. Debjani Chakraborti, Valentina E. Balas, Bijay Baran Pal , Genetic Algorithm for FGP Model of a Multiobjective Bilevel Programming Problem in Uncertain Environment, IGI Global, Handbook of Research on Natural Computing for Optimization Problems Chapter 35, pag. 870-888, ISBN 9781522500582, DOI:

11. **Jagatheesan Kaliannan, Anand B, Nguyen Gia Nhu, Nilanjan Dey, Amira S. Ashour and Valentina E. Balas, Automatic Generation Control of Hydro-Hydro Interconnected Power System Based on Ant Colony Optimization, Recent Developments in Intelligent Nature-Inspired Computing, Editor Srikanta Patnaik, IGI Global, pag 153-170, 2017,**
<http://www.igi-global.com/book/recent-developments-intelligent-nature-inspired/173681>
12. Valentina E. Bălaș, Janos Fodor, Annamaria Várkonyi-Kóczy, Jozsef Dombi, Lakhmi C. Jain (**editori**) la [Soft Computing Applications](#), Proceedings of the 5th International Workshop Soft Computing Applications (SOFA 2012), [Advances in Intelligent Systems and Computing](#), Springer, 2013, Vol. 195, ISBN 978-3-642-33941-7, 726 pag.
13. Valentina E. Bălaș, Annamaria Varkonyi-Koczy, Janos Fodor (**editori**) la “New Concepts and Applications in Soft Computing, Studies in Computational Intelligence, Berlin: Springer, 2012, Vol 417, ISBN 978-3-642-28958-3, 278 pag.
<http://www.springer.com/engineering/computational+intelligence+and+complexity/book/978-3-642-28958-3>
14. Valentina E. Bălaș, Annamaria Varkonyi-Koczy, Janos Fodor (**editori**) la “Soft Computing Based Modeling in Intelligent Systems”, Studies in Computational Intelligence, Berlin: Springer, 2009, Vol. 196, ISBN 978-3-642-00447-6, 206 pag. <http://www.springer.com/engineering/book/978-3-642-00447-6>
15. Jain, L.C.; Sato-Ilic, M.; Virvou, M.; Tsihrintzis, G.A.; Valentina E. Bălaș, Abeynayake, C., (**editori**), la Computational Intelligence Paradigms, Innovative Applications, [Studies in Computational Intelligence](#), Springer, 2008, Vol. 137, VIII, ISBN: 978-3-540-79473-8, 282 pag.
16. Valentina E. Bălaș, Lakhmi C. Jain, Branco Kovacevic (**editori**) la [Soft Computing Applications](#), Proceedings of the 6th International Workshop Soft Computing Applications (SOFA 2014), [Advances in Intelligent Systems and Computing](#), Springer, 2016, Volume 356 and 357, Vol. 1 si Vol. 2, ISSN: 2194-5357, ISBN 978-3-319-18296-4, ISBN 978-3-319-18416-6
<http://www.springer.com/gp/book/9783319182957> <http://www.springer.com/gp/book/9783319184159>
17. Valentina Emilia Balas, Lakhmi C. Jain, Xiangmo Zhao, Fuqian Shi (**editori**), Information Technology and Intelligent Transportation Systems : Proceedings of the 2nd International Conference on Information Technology and Intelligent Transportation Systems (ITITS 2017), Xi'an, China, June 10, 2017, Springer 2017, ISBN 9781614997849, <https://www.bookdepository.com/Information-Technology-and-Intelligent-Transportation-Systems/9781614997849?status=invalid-email>
18. **Jude Hemanth and Valentina Emilia Balas, (editori), Biologically Rationalized Computing Techniques For Image Processing Applications, Springer 2018, ISBN 978-3-319-61316-1, <http://www.springer.com/in/book/9783319613154>**
19. Valentina Emilia Balas, Lakhmi C. Jain, Zhao, X., (**editori**), **Information Technology and Intelligent Transportation Systems**, Proceedings of the 2015 International Conference on Information Technology and Intelligent Transportation Systems (ITITS 2015), Springer 2017, Vol. 1 si Vol. 2, ISBN 978-3-319-38789-5, ISBN 978-3-319-38771-0, <http://www.springer.com/in/book/9783319387697> ,
<http://www.springer.com/in/book/9783319387871>
20. Amlan Chakrabarti, Neha Sharma, Valentina Emilia Balas (**editori**), Advances in Computing Applications, Springer 2017, ISBN: 978-981-10-2629-4, <http://www.springer.com/la/book/9789811026294>
21. Pijush Samui, Sanjiban Sekhar Roy, Valentina Emilia Balas (**editori**), Handbook of Neural Computation, Elsevier 2017, ISBN: 9780128113189,
<https://www.elsevier.com/books/handbook-of-neural-computation/samui/978-0-12-811318-9>
22. **Valentina Emilia Balas, Lakhmi C. Jain, Marius Mircea Balas (editori), Soft Computing Applications: Proceedings of the 7th International Workshop Soft Computing Applications (SOFA 2016), Vol. 1 + Vol. 2, Springer 2017, ISBN: 9783319625201, ISBN: 9783319625232**
<http://www.springer.com/gp/book/9783319625201>, <http://www.springer.com/gp/book/9783319625232>
23. Balas, V.E., Roy, S.S., Sharma, D., Samui, P. (**editori**)
[Handbook of Deep Learning Applications](#)
ISBN 978-3-030-11479-4, 2019
<https://www.springer.com/gp/book/9783030114787>

24. **Engineering Research Methodology**
A Practical Insight for Researchers
Deb, Dipankar, Dey, Rajeeb, Balas, Valentina E., (editori)
ISBN 978-981-13-2947-0, 2019
<https://www.springer.com/gp/book/9789811329463>
Internet of Things and Big Data Analytics for Smart Generation
25. **Balas, V.E., Solanki, V.K., Kumar, R., Khari, M. (editori)**
ISBN 978-3-030-04203-5, 2019
<https://www.springer.com/gp/book/9783030042028>
26. **Data and Communication Networks**
Proceedings of GUCON 2018
Jain, Lakhmi C., E. Balas, Valentina, Johri, Prashant (editori)
ISBN 978-981-13-2254-9, 2019
<https://www.springer.com/gp/book/9789811322532>
27. **Proceedings of International Ethical Hacking Conference 2018**
eHaCON 2018, Kolkata, India
Chakraborty, M., Chakrabarti, S., Balas, V.E., Mandal, J.K. (editori)
ISBN 978-981-13-1544-2, 2019
<https://www.springer.com/gp/book/9789811315435>
28. **Innovations in Infrastructure**
Proceedings of ICIIF 2018
Deb, Dipankar, Balas, Valentina E., Dey, Rajeeb (editori)
ISBN 978-981-13-1966-2, 2019
<https://www.springer.com/gp/book/9789811319655>

29. [**Nature Inspired Optimization Techniques for Image Processing Applications**](#)
Hemanth, Jude, Balas, Valentina Emilia (editori)
 ISBN 978-3-319-96002-9, 2019
<https://www.springer.com/gp/book/9783319960012>
30. [**Innovative Research in Transportation Infrastructure**](#)
 Proceedings of ICIIF 2018
Deb, D., Balas, V.E., Dey, R., Shah, J. (editori)
 ISBN 978-981-13-2032-3, 2019
<https://www.springer.com/gp/book/9789811320316>
31. [**Data Management, Analytics and Innovation**](#)
 Proceedings of ICDMAI 2018, Volume 2
Balas, Valentina Emilia, Sharma, Neha, Chakrabarti, Amlan (editori)
 ISBN 978-981-13-1274-8, 2019
<https://www.springer.com/gp/book/9789811312731>
32. [**Data Management, Analytics and Innovation**](#)
 Proceedings of ICDMAI 2018, Volume 1
Balas, Valentina Emilia, Sharma, Neha, Chakrabarti, Amlan (editori)
 ISBN 978-981-13-1402-5, 2019
33. [**Big Data Processing Using Spark in Cloud**](#)
Mittal, M., Balas, V.E., Goyal, L.M., Kumar, R. (editori)
 ISBN 978-981-13-0550-4, 2019
<https://www.springer.com/gp/book/9789811305498>
34. [**Security with Intelligent Computing and Big-data Services**](#)
Peng, S.-L., Wang, S.-J., Balas, V.E., Zhao, M. (editori)
 ISBN 978-3-319-76451-1, 2018
<https://www.springer.com/gp/book/9783319764504>
35. [**Biologically Rationalized Computing Techniques For Image Processing Applications**](#)
Hemanth, D. Jude, Balas, Valentina Emilia (editori)
 ISBN 978-3-319-61316-1, 2018
<https://www.springer.com/gp/book/9783319613154>
36. [**Intelligent Data Analysis for Biomedical Applications: Challenges and Solutions**](#)
[Intelligent Data-Centric Systems: Sensor Collected Intelligence](#)
Hemanth D. Jude, Deepak Gupta, Valentina Emilia Balas (editori)
<https://www.bookdepository.com/Intelligent-Data-Analysis-for-Biomedical-Applications/>, ISBN 9780128155530,
 2019
37. [**Handbook of Neural Computation**](#)
Pijush Samui, Sanjiban Sekhar Roy, Valentina Emilia Balas. (editori)
 ISBN13 9780128113189, 2017
<https://www.bookdepository.com/Handbook-Neural-Computation/9780128113189>
38. [**Biologically Rationalized Computing Techniques For Image Processing Applications**](#)
[Lecture Notes in Computational Vision and Biomechanics](#)
JUDE HEMANTH, Valentina Emilia Balas (editori)
ISBN13 9783319613154, 2019
<https://www.bookdepository.com/Biologically-Rationalized-Computing-Techniques-For-Image-Processing-Applications/9783319613154>

Edituri naționale

39. Valentina E. Bălaș, Teoria Sistemelor, Editura Universității “Aurel Vlaicu” Arad, 2013, ISBN 978-973-752-672-4, 150 pag.
40. Valentina E. Bălaș, (**Editor**) 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, Editura Universității “Aurel Vlaicu” din Arad, 457 pag.**
41. Valentina E. Bălaș, *Senzori inteligenți cu model intern și fuziune fuzzy*, Editura Politehnica, 2004, Timișoara, ISBN 973-625-113-6, 151 pag., **Prefața scrisă de Prof. Lotfi A. Zadeh.**
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D. **Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)**

1. Valentina E. Bălaș, Radu Costineanu, Srgian Danity, Valeriu Ille, Cristian Marton, Bela A. Sajgo, Csik Zsolt, *On Watergy And Aquifers*, ISREIE 2010, International Symposium Research and Education in Innovation Era, 3rd Edition, Arad, Romania, November 11-12, 2010, Proc. 3rd ISREIE (Aurel Vlaicu Univ. of Arad Symposium), Series: Engineering, Oct. 10-12, 2010, ISSN 2065-2569, pag. 292-298.
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3. Onisifor Olaru, Marius Buzera, Valentina E. Bălaș, Ioan Emeric Koles, *New Algorithms for color Classification with Machine Vision Devices*, ENEC 2010, The 2nd International Symposium 2010, Education in Nowadays European Context, Anale, pag. 214-217, 17-18 Aprilie 2010, Tg. Jiu, Gorj, Romania, ISBN 978-606-510-870-7, Editura Universitaria, Craiova.
4. Valentina E. Bălaș, Emeric I. Koles, Corina Mnerie, *Optimizing the Speed Controllers' Tuning*, International Symposium Research and Education in Innovation Era, 4th Edition, Arad, November 08-09, pag. 121-126, 2012.

E. **Brevete obținute în întreaga activitate** -

NU

F. **Contracte de cercetare**

Director granturi/proiecte internationale

1. **Project no. 015942, Project acronym CEEC IST NET, FP 6, 2005-2006.**
Project title 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, Duration: 24 months
Director Stiintific din partea UAV – Valentina E. Balas (pag.87)
https://slideblast.com/project-no-015942-project-acronym-ceec-ist-net-project-title-_595ceac01723dd8e40283dc3.html
2. **Grant Internațional – NSF Awards ENG-1047778 and ENG-1047714– Collaborative Research - 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, *Șef de program - Valentina E. Bălaș, grant castigat prin competitie*
<http://wires.gatech.edu/main.php>,
<http://www.wires.gatech.edu/committee.php>,
<http://wires.gatech.edu/resources/WIRES2-agenda.pdf>
3. Global Initiative for Academic Network (GIAN) programme approved by Union Cabinet in Higher Education aimed at tapping the talent pool of Scientist and Entrepreneur Internationally to encourage their engagement with the institutes of higher Education in India so as to augment the country’s existing academic resources, accelerate the pace of quality reform, and elevate India’s scientific and technological capacity to global excellence.
IIT Kharagpur- the national coordinator for India
Valentina E. Balas – responsible Romanian partner
Funding of GIAN: 12.000 USD,
Proiect câștigat prin competitivitate in India - Mai 2016, derulat in septembrie 2016, singurul profesor selectat din Romania.
<http://www.sici.org/programmes/details/global-initiative-for-academic-network-gian-programme/>
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4. Proiectul de mobilitati cu codul PN-III-P3-3.1-PM-RO-CN-2018, pozitia 10 din lista celor 29 de proiecte aprobate: <https://www.uefiscdi.ro/https://resource-84873://> - **PN3-P3-554/16.07.2018** - Competiția de cooperare bilaterală România – Republica Populară Chineză, directori de proiect Oana Geman, Universitatea Stefan Cel Mare din Suceava si Guojun Wang, Guangzhou University, Guangzhou, Guangdong, China, partener Universitatea Aurel Vlaicu din Arad cu director Valentina E. Balas avand titlul TEHNICI INTELIGENTE PENTRU APLICATII MEDICALE UTILIZAND RETELE DE SENZORI, acronym GUSV, Domeniul Tehnologiei informatonale si de comunicatii, valoare 79.488 lei, durata 2 ani.
5. **Un numar de 40 Travel granturi a cate 3000 EURO** fiecare pentru sustinerea de conferinte invitate si demararea de cercetari comune in India, Japonia, Taiwan, China, Singapore, USA, Ungaria, Azerbaijan, Pakistan, Iran, Rwanda.

Director granturi/proiecte naționale

Peste 25 de proiecte realizate la CCSIT Vagoane Arad in calitate de șef de proiect pentru partea electrică/electronică, proiecte obtinute prin competitie in cadrul grupului de intreprinderi producatoare de material rulant.

6. *Masă de poziționare și rotire 1000 Kg pt. programul nuclear (responsabil - partea electrică V. E. Balas).* Cod: 291-84 MPR. Beneficiar: ISIM Timișoara. Executant: C.C.S.I.T.V.A. Valoare: 100.000 ROL.
7. *Masă de poziționare și rotire 4000 Kg, pentru programul nuclear (responsabil - partea electrică V. E. Balas).* Cod: 292-84MPR. Beneficiar: ISIM Timișoara. Executant: C.C.S.I.T.V.A. Valoare: 150.000 ROL.
8. *Instalație pentru debitarea tablei din rulou (responsabil - partea electrică V. E. Balas).* Cod: 2-85 ISP. Beneficiar: I.V.Caracal. Executant: C.C.S.I.T.V.A. Valoare: 140.000 ROL.
9. *Boghiu metrou generația a II-a (responsabil - partea electrică V. E. Balas)* Cod: 5-85-BMG II. Beneficiar: I.V.ARAD. Executant: C.C.S.I.T.V.A. Valoare: 200.000 ROL.
10. *Mașina de roluit corpul cilindrului de frână (responsabil - partea electrică V. E. Balas).* Cod: 6-85MUS. Beneficiar: I.V.Arad. Executant: C.C.S.I.T.V.A. Valoare: 1.000.000 ROL.
11. *Mașina de roluit capace cilindru de frână (responsabil - partea electrică V. E. Balas).* Cod: 16-85MUS. Beneficiar: I.V.Arad. Executant: C.C.S.I.T.V.A. Valoare: 700.000 ROL.
12. *Agregat de găurit multiax taler tampon (responsabil - partea electrică V. E. Balas).* Cod: 47-85AG. Beneficiar: I.V.Drobeta Tr.Severin. Executant: C.C.S.I.T.V.A. Valoare: 300.000 ROL.
13. *Agregat de găurit placa de bază tampon PKP-Polonia (responsabil - partea electrică V. E. Balas).* Cod: 52-

- 85AG.** Beneficiar: I.V.Drobeta Tr.Severin. Executant: C.C.S.I.T.V.A. Valoare: 250.000 ROL.
14. *Agregat de găurit leviere (responsabil - partea electrică V. E. Balas).* Cod: 6-**86AG.** Beneficiar: I.V.Caracal. Executant: C.C.S.I.T.V.A. Valoare: 250.000 ROL.
 15. *Mașina de bordurat și retăiat cilindrul de frână (responsabil - partea electrică V. E. Balas).* Cod: 16-**86MBR.** Beneficiar: I.V.Arad. Executant: C.C.S.I.T.V.A. Valoare: 400.000 ROL.
 16. *Stand derulat cabluri (responsabil - partea electrică V. E. Balas).* Cod: 25-**86ST.** Beneficiar: I.V.Arad. Executant: C.C.S.I.T.V.A. Valoare: 270.000 ROL.
 17. *Cercetări privind realizarea unei instalații complexe pentru efectuarea încercărilor dinamice tip AAR (SUA), (responsabil - partea electrică V. E. Balas).* Cod: 51-**87STC.** Beneficiar: C.C.S.I.T.V.A. Executant: C.C.S.I.T.V.A. Valoare: 1.200.000 ROL.
 18. *Stand complex pentru încercat cuple metrou (responsabil - partea electrică V. E. Balas).* Cod: 6-**88STC.** Beneficiar: I.V.Arad. Executant: C.C.S.I.T.V.A. Valoare: 300.000 ROL.
 19. *Vagon dinamometric (responsabil - instalația TV prin cablu, interfon, sonorizare V. E. Balas).* Cod: 207. 1988, Beneficiar: I.V.Arad. Executant: C.C.S.I.T.V.A. Valoare: 2.500.000 ROL.
 20. *Tehnologie de sudare a stâlpilor de la vagoanele tip Gondolă cu comandă program în mediu protector tip CO₂ (responsabil - partea electrică V. E. Balas).* Cod: 24-**89** ISR. Beneficiar: I.V.Arad. Executant: C.C.S.I.T.V.A. Valoare: 1.000.000 ROL.
 21. *Troliu pentru deplasat longitudinal la nituire (responsabil - partea electrică V. E. Balas).* Cod: 4-**90** D. Beneficiar: I.V.Arad. Executant: C.C.S.I.T.V.A. Valoare: 150.000 ROL.
 22. *Instalație pentru vopsit vagoane în câmp electrostatic (responsabil - partea electrică V. E. Balas).* Cod: 6-**91** ISR. Beneficiar: M.E.V.A. Dr. Tr.- Severin. Executant: C.C.S.I.T.V.A. Valoare: 700.000 ROL.
 23. *Vagon transport agabaritic pe 24 osii (responsabil - partea electrică V. E. Balas).* Cod: 653.36-36., 1991, Beneficiar: Electroputere Craiova. Executant: C.C.S.I.T.V.A. Valoare: 1.500.000 ROL.
 24. *Vagon comandă personal (responsabil - instalații electrice speciale V. E. Balas).* Cod: AAP., 1992, Beneficiar: Ministerul Apărării Naționale. Executant: C.C.S.I.T.V.A. Valoare: 200.000 ROL.
 25. *Vagon clinic și radiologic (responsabil - instalații electrice speciale V. E. Balas).* Cod: AAT., 1992, Beneficiar: M. Ap. N. Executant: C.C.S.I.T.V.A. Valoare: 220.000 ROL.
 26. *Vagon farmacie (responsabil - instalații electrice speciale V. E. Balas).* Cod: AAV., 1992, Beneficiar: M. Ap. N. Executant: C.C.S.I.T.V.A. Valoare: 200.000 ROL.
 27. *Vagon uzină (responsabil - instalații electrice speciale V. E. Balas).* Cod: AAW., 1992, Beneficiar: M. Ap. N. Executant: C.C.S.I.T.V.A. Valoare: 300.000 ROL.
 28. *Vagon sală de operații (responsabil - instalații electrice speciale V. E. Balas).* Cod: AAR, 1992, Beneficiar: M. Ap. N. Executant: C.C.S.I.T.V.A. Valoare: 175.000 ROL.
 29. *Vagon reanimare și transport răniți (responsabil - instalații electrice speciale V. E. Balas).*, 1993, Cod: AAS. Beneficiar: M. Ap. N. Executant: C.C.S.I.T.V.A. Valoare: 200.000 ROL.
 30. *Vagon sală pansamente (responsabil - instalații electrice speciale V. E. Balas).*, 1993, Cod: AAU. Beneficiar: M. Ap. N. Executant: C.C.S.I.T.V.A. Valoare: 200.000 ROL.
 26. **Grant CNCSU Nr. 107, obținut prin competiție- Dispozitive, Circuite și Microsisteme” in cooperare cu Universitatea „Politehnica” București prin Banca Mondială.** Cod: CNCSU, Nr. 107. Executant: Universitatea Politehnica Timișoara. Bursa - **V. E. Balas** luna noiembrie 1999, Senzori inteligenți fuzzy, in cadrul laboratorului LAMII, Annecy, Franța. Valoare: 2000\$.
 27. **Grant CNCSU Nr. 107, obținut prin competiție- Dispozitive, Circuite și Microsisteme” in cooperare cu Universitatea „Politehnica” București prin Banca Mondială.** Cod: CNCSU, Nr. 107. Executant: Universitatea Politehnica Timișoara. Bursa - **V. E. Balas**, luna ianuarie 2001, Senzori inteligenți fuzzy, in cadrul laboratorului LAMII, Annecy, Franța, Valoare : 2000\$.
 28. **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. **Director - V. E. Bălaș**, colaborator – Consiliul Județean Arad, Centrul Cultural. Valoare: 2.000 RON.
 29. **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. **Director - V. E. Bălaș**, colaborator – Consiliul Județean Arad, Centrul Cultural. Valoare: 2.500 RON.
 30. **Proiect obținut prin competiție: Organizarea Școlii de Vară – „Soft Computing” – ediția a IV-a, cu participare internațională, în limba engleză.** Iulie 2005, Dispoziția 228/18.05 2005, Universitatea „Aurel Vlaicu” din Arad. **Director - V. E. Bălaș**, colaborator – Consiliul Județean Arad, Centrul Cultural. Valoare: 8.000 RON.
 31. **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, **Director - V. E. Bălaș**, colaborator – Consiliul Județean Arad, Centrul Cultural. Valoare: 3.000 RON.
 32. **Contract de cercetare obținut prin competiție de la SC TAKATA SA: Laborator automatizari cu Echipament Mitsubishi PLC,** septembrie 2007, Universitatea „Aurel Vlaicu” din Arad, **Director de contract - Valentina E. Bălaș**, 1600 EURO.
 33. **Contract de finantare UEFISCDI - 48/29.11.2016 - Subprogram 1.1 - Resurse Umane - Proiecte de mobilitate pentru cercetatori cu experienta din diaspora – cod depunere PN-III-P1-1.1-MCD2016-0108, Responsabil – Valentina E. Balas,** Cercetator din diaspora – Dan Ralescu, Universitatea Cincinnati, USA, Valoare - **2100 EURO**, proiect obținut prin competiție nationala.

34. **Proiect obținut prin competiție**, Centrul Municipal de Cultura Arad - CMCA, Contract nr. 4862/10.08.2016, 23.000 lei,
Director de proiect – **Valentina E. Balas**, Soft Computing and Applications.
35. **Contract de cercetare obținut prin competiție cu SC CONTACT PLUS SRL Arad.** „Cercetări privind dezvoltarea unor noi metode de fuzionare a cunoștințelor și aplicații”, Mai 2005, Nr. 1570/11.05 2005, Universitatea „Aurel Vlaicu” din Arad. Șef de contract - **V. E. Balas**. Valoare: 5.000.000 ROL.
36. **Contract de cercetare obținut prin competiție** Nr. 05/12.12.2007 cu SC Ovidiu Nicola SRL „Cercetări privind realizarea unui senzor pentru ploaie”, Universitatea „Aurel Vlaicu” din Arad, *Responsabil de contract - Valentina E. Balas*, 1.000 RON
37. **Contract de cercetare obținut prin competiție** Nr. 2726/22.05.2008 cu SC Ready SRL „Cercetări privind aplicații ale inteligenței artificiale în tehnică”, Universitatea „Aurel Vlaicu” din Arad, *Responsabil de contract - Valentina E. Balas*, 1.000 Ron
38. **Contract de cercetare obținut prin competiție** Nr. 433/19.02.2010 cu SC Ready SRL „Cercetări privind aplicații în domeniul sistemelor inteligente”, Universitatea „Aurel Vlaicu” din Arad, *Responsabil de contract - Valentina E. Balas*, 500 Ron.
39. **Contract de cercetare obținut prin competiție** Nr. 5095.05.11.2010 cu SC Computer Voice Systems Romania SRL „Cercetări privind Studiul oportunității utilizării tehnologiei GWT pentru aplicațiile web cu flux de date real time”, Universitatea „Aurel Vlaicu” din Arad, *Responsabil de contract - Valentina E. Balas*, 1000 Ron.
40. Competiția Premiarea rezultatelor cercetării în Universitatea Aurel Vlaicu Arad, martie 2016, 2100 Euro – **Valentina E. Balas**.
41. **Proiect obținut prin competiție** cu Centrul Municipal de Cultura Arad - CMCA, Programul Tineret, Învățământ și Recreative 2017, poziția 20, 12.200 lei, **Director de proiect – Valentina E. Balas**, Cercetări în domeniul Pancreasului Artificial.
42. **Contract de cercetare științifică** obținut prin competiție nr. 9542/22.12.2017, cu SC Contact Plus SRL Arad, „Modelarea, simularea, experimentarea și validarea unor noi metode avansate de soft computing în domeniul controlului clădirilor inteligente”, **Director de proiect – Valentina E. Balas**, Valoare 40.000 lei (10.000 \$).
43. **Cod proiect:** PN-III-P1-1.1-MCD-2019-0133, **Contract nr.:** 23/24.09.2019 – mobilitate cercetători din diaspora – Prof. Stefan Bratosin, **Director de proiect – Valentina E. Balas**

Membru în colective de granturi/proiecte internaționale

44. 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"*, Acronim: *NextGenElectroMedSupport*, Instituția conducătoare în țară este Universitatea Petru Maior din Târgu Mureș, universitatea conducătoare din Bulgaria este Universitatea Tehnică din Sofia. Directori de proiect: Bulgaria - Prof. dr. Roumen Kountchev Technical University from Sofia, Bulgaria, Romania - director general - Barna Iantovics, Membri /cercetători în echipă: **Valentina E. Bălaș**, Marius M. Bălaș, **august 2010-august 2012**.
45. Program Internațional, **Planul Național pentru Cercetare Dezvoltare și Inovare 2007-2013-PN II, Capacități /Modul III, Proiecte de Cooperare Bilaterală/Multilaterală**, Cooperare Bilaterală între România și Slovacia Titlu: **"Hybrid Medical Complex Systems"**, Acronim: ComplexMediSys
CO: Universitatea Petru Maior din Targu Mureș
CO: Academia Slovaca de Științe, Bratislava
Directori. Ladislav Hluchý (Slovacia) și Barna Iantovics (Romania)
Membri /cercetători în echipă: **Valentina E. Bălaș**, Marius M. Bălaș, **ianuarie 2011-ianuarie 2013**.
46. National Science Foundation (NSF), Agency Contract Number: 0948297, Project type: Basic Research, Period: 07/20/2009 to 10/15/2010, Principal Investigator: Pamela McCauley-Bush, The objective of this grant is to establish an international collaboration with two female engineering faculty members in Romania to further the research being conducted by the Human Factors and Simulation in Disaster Management Research Team at the University of Central Florida. The UCF HFDI Research is led by Dr. Pamela McCauley Bush and the collaborative partners are Dr. Valentina Balas and Mihaela Albu.
https://argis.research.ucf.edu/index.cfm?fuseaction=detail.view_proposal_detail&rec_id=1049585&rec_type=research

Membru în colective de granturi/proiecte naționale

47. **Grant CNCISIS** „Cercetări pentru implementarea strategiilor bazate pe logica fuzzy și rețele neuronale destinate detecției și diagnosticării defectelor, cu aplicație la sistemele de conducere a acțiunilor electrice”. Iulie 2004. Executant principal: Universitatea „Politehnica” Timișoara. **membri UAV – M.M. Balas și V. E. Bălaș**. Valoare: 800 EURO.
48. **Grant PN – II WE Cod CNCISIS : 47**, Contract de cofinanțare cu Autoritatea Națională pentru Cercetarea Științifică Nr. 316 / 09.04.2008, Workshop Exploratoriu „De la limbaj natural la soft computing: noi paradigme

ale inteligenței artificiale”, Responsabil Institutul de Cercetari pentru Inteligența Artificială al Academiei Române – Acad. Dan Ioan Tufiș, 30.000 Ron, **Colaborator – Valentina E. Bălaș**,

- 49. POSDRU/89/1.5/S/56287**, *Programe postdoctorale în avangarda cercetării de excelență în Tehnologiile Societății Informaționale și dezvoltarea de produse și procese inovative*, 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 – INCDTP în parteneriat cu Academia de Studii Economice București - Centrul de Cercetări Analize și Politici Regionale, Universitatea din Oradea și ASSOCIATION GROUPE ESSEC, **Membru al grupului țintă – Valentina E. Bălaș**, Activitatea 4 – Formarea și perfecționarea în cadrul programelor pilot de pregătire postdoctorală prin cursuri susținute de ESSEC Bussines School – Franța.
- 50.** Membru în colectivul grantului, **Responsabil WP 3** din Programul Operațional Competitivitate 2014-2020, Axa prioritară 1 – Cercetare, dezvoltare tehnologică și inovare (CDI) în sprijinul competitivității economice și dezvoltării afacerilor, Acțiunea 1.1.4 – Atragerea de personal cu competențe avansate din străinătate pentru consolidarea capacității de CD. Titlul Proiectului: *Noi nano-arhitecturi de inspirație biologică de tip cellular – pentru circuite integrate, Nano-ART-BioCell – P_37_744*, **valoare 8.502.600 lei, 2016-2019**
Responsabil la pachetul WP 3 – Valentina E. Balas
- 51. Contract de cercetare** *obținut prin competiție* Nr. 03 din 10.10.2013 cu SC S.C MBB S.R.L “*Modelarea și simularea proceselor de tratament termic*”, Universitatea „Aurel Vlaicu” din Arad, *Responsabil de contract* – Marius M. Balas, Membru în echipa de cercetare - **Valentina E. Balas**, 1000 Ron
- 52. Contract de cercetare** științifică obținut prin competiție nr. 10/16.07.2019, cu număr de intrare la UAV: 4693/16.017.2019, cu SC Contact Plus SRL Arad, „*Promovarea agriculturii în mediul urban: modele matematice și soluții concrete*”, Membru în colectivul de proiect – **Valentina E. Balas**, Valoare 42.000 lei (10.000 \$).

PREMII

2019 - *Premiul Academiei Romane: Tudor Tanasescu, Valentina Emilia Balas, (in colectiv)*



Arad, 14.07.2024

Prof.univ.habil.dr.ing. Valentina E. Balas