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L I S T

scientific papers in the field of teaching disciplines

A.1. Doctoral thesis: "*Intelligent Sensors with Internal Model and Fuzzy Techniques*", "Politehnica" University of Timisoara, Scientific Supervisor Prof. dr. eng. Mircea Ciugudean, in the field of **Electronic Engineering and Telecommunications**, defended on 13.06.2004 at the "Politehnica" University of Timisoara, Doctoral Degree: Series C, No. 0004886/13019 of 22.09.2003, based on the Order of the Minister of Education and Research no. 4741/25.08.2003

A.2. Habilitation thesis: "*Soft computing techniques with applications in Systems Engineering*", defended at the Oil and Gas University of Ploiesti in April 2018. The habilitation certificate was issued based on the Order of the Ministry of National Education no. 3801 of 04.06.2018.

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38. N. Popescu-Bodorin, V.E. Balas, I.M. Motoc, *Iris Codes Classification Using Discriminant and Witness Directions*, 5th International Symposium on Computational Intelligence and Intelligent Informatics, ISCIII 2011, September 15-17, 2011, Floriana, Malta, pag. 143-148, ISBN 978-1-4577-1859-5, IEEE Catalog Number: CFP 1136C-CDR, <http://www.trivent.hu/ISCIII2011/index.php?p=invitation> , **DBLP**
39. N. Popescu-Bodorin, V.E. Balas, I.M. Motoc, *8-Valent Fuzzy Logic for Iris Recognition and Biometry*, 5th International Symposium on Computational Intelligence and Intelligent Informatics, ISCIII 2011, September 15-17, 2011, Floriana, Malta, pag. 149-154, ISBN 978-1-4577-1859-5, IEEE Catalog Number: CFP 1136C-CDR, <http://www.trivent.hu/ISCIII2011/index.php?p=invitation>, **DBLP**
40. Valentina E. Balas, Soumya Banerjee, *Seeded Text Auto-Summarization: An Experience with Simplified Statistical and Fuzzy Ranking Algorithm*, **15th IEEE International Symposium on Computational Intelligence and Informatics, CINTI 2014, November 19-21, 2014 in Budapest, Hungary, ISBN 978-1-4799-5338-7/14, pag. 143-146**
41. Manash Sarkar, Soumya Banerjee and Valentina E. Balas, *Configuring Trust Model for Cloud Computing: Decision Exploration Using Fuzzy Reasoning*, INES 2015, IEEE 19th International Conference on Intelligent Engineering Systems • September 3–5, 2015, Bratislava, Slovakia, pag. 219-223.
42. D. Jude Hemanth, J. Anitha, Valentina Emilia Balas, *Performance Improved Hybrid Intelligent System for Medical Image Classification*, Proceedings of the 7th Balkan Conference in Informatics Conference Proceedings, 2-4 September 2015, Craiova, Romania, Article 8, ACM ISBN: 978-1-4503-3335-1, doi>[10.1145/2801081.2801095](https://doi.org/10.1145/2801081.2801095)
43. K.Jagatheesan, B.Anand, Nilanjan Dey, Amira S. Ashour and Valentina Emilia Balas, *Proportional-Integral-Derivative (PID) Controller Equipped LFC of Multi-Area Interconnected Power System*, V International Conference Industrial Engineering and Environmental Protection 2015 (IIZS 2015), Zrenjanin, Serbia; October 15-16, 2015, pag. 427-436, ISBN 978-86-7672-259-4
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45. Ram Kumar, F. A. Talukdar, Nilanjan Dey, Amira S. Ashour, V. Santhi, Valentina E. Balas, Fuqian Shi, *Histogram Thresholding in Image Segmentation: A Joint Level Set Method and Lattice Boltzmann Method based Approach*, 2015 International Conference on Information Technology and Intelligent Transportation Systems (ITITS 2015), 12-13 December 2015, Xi'an, China
46. Sirshendu Hore, Sankhadeep Chatterjee, V. Santi, Nilanjan Dey, Amira S. Ashour, Valentina E. Balas, Fuqian Shi, *Indian Sign Language Recognition using Optimized Neural Networks*, 2015 International Conference on Information Technology and Intelligent Transportation Systems (ITITS 2015), 12-13 December 2015, Xi'an, China
47. Rakesh kumar S, Ramkumar K, Seshadhri Srinivasan, Valentina Emilia Balas, Fuqian Shi, *Self-Calibration of Dead Reckoning Sensor for Skid-Steer Mobile Robot Localization using Neuro-Fuzzy Systems*, 2015 International Conference on Information Technology and Intelligent Transportation Systems (ITITS 2015), 12-13 December 2015, Xi'an, China
48. SMJ Mortazavi, Omid Jaber, Atefeh Zamani, SAR Mortazavi, Valentina E. Balas, Ali Soleimani, Ali Zamani, Masoud Haghani, *The Importance of Quantification of Data in Studies on the Health Effects of Exposure to Electromagnetic Fields Generated by Mobile Base Stations*, The Congress on Information Technology, Computational and Experimental Physics (CITCEP 2015), Kraków, Poland, 18-20 December 2015, Paper 22, pag 113-116
49. Marjan Kuchaki Rafsanjani, Hamideh Fatemidokht, Valentina E. Balas, *A modeling framework for Quality of Service in Mobile Ad hoc Networks*, The Congress on Information Technology, Computational and Experimental Physics (CITCEP 2015), Kraków, Poland, 18-20 December 2015, Paper 30, pag 154-158
50. Marzieh Najariyan, Mehran Mazandarani, Valentina E. Balas, *Modified Reimann-Liouville fuzzy fractional derivative*, The Congress on Information Technology, Computational and Experimental Physics (CITCEP 2015), Kraków, Poland, 18-20 December 2015, Paper 31, pag. 159-170
51. Marius M. Balas, Valentina E. Balas, *The Parallel Shift. A Fundamental Challenge for the Information Technology after 2008*, The Congress on Information Technology, Computational and Experimental Physics (CITCEP 2015), Kraków, Poland, 18-20 December 2015, Paper 47, pag, 242-246
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53. Seshadhri Srinivasan, Daniel Grossman, Carmen Del Vecchio, Valentina E. Balas, Luigi Glielmo, *Enabling technologies for Enterprise Wide Optimization*, [2015 IEEE 10th International Conference on Industrial and Information Systems \(ICIIS\)](http://www.ieee.org/conferences/papers/IEEE_XploreFullTextArticles.xp?doi=10.1109/ICIINFS.2015.7399051) , 17-20 December, 2015, University of Peradeniya, Akbar Bridge, Peradeniya, Sri Lanka, pag. 434-439, DOI: [10.1109/ICIINFS.2015.7399051](https://doi.org/10.1109/ICIINFS.2015.7399051)

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55. Marius M. Bălaș, Valentina E. Bălaș, *Adaptive Rule-Based Reasoning by Qualitative Analysis*, 13 International Conference on Information Processing and Management of Uncertainty, IPMU 2010, Dortmund, Germany, June 28- July 2, Proceedings, Part I, [Communications in Computer and Information Science](http://www.springerlink.com/content/u50w1n1652815147/), 2010, Volume 80, Part 3, Part 11, pag. 553-560, E. Hullermeier, R. Kruse, F. Hoffman (Eds.), Springer-Verlag, Berlin –Heidelberg 2010, ISSN 1865-0929, ISBN-10 3-642-14054-8 Springer Berlin Heidelberg NewYork, **SCOPUS Indexed, http://www.springerlink.com/content/u50w1n1652815147/ (ARC Cat. C)**
56. V. E. Balas, C. M. Noaica, J.R. Popa, C. Munteanu, V. C. Stroescu, *Establishing PNN-Based Iris Code to Identity Fuzzy Membership for Consistent Enrollment*, In volume *Advances in Intelligent Systems and Computing*, Series Ed.: Kacprzyk, Janusz, Proceedings of the 6th International Workshop on Soft Computing Applications SOFA 2014, July 22-24, 2014, Timisoara, Romania, Guest Editors: Valentina E. Balas, Lakhmi C. Jain, **Branko Kovačević, Springer Verlag, 2016, AISC, Volume 357, ISSN 2194-5357, ISBN 978-3-319-18415-9, Vol. 2, pag. 805-818, (ARC Cat. C, SCOPUS).**
57. N. Popescu-Bodorin, V. E. Balas, *Best Practices in Reporting Iris Recognition Results*, In volume *Advances in Intelligent Systems and Computing*, Series Ed.: Kacprzyk, Janusz, Proceedings of the 6th International Workshop on Soft Computing Applications SOFA 2014, July 22-24, 2014, Timisoara, Romania, Guest Editors: Valentina E. Balas, Lakhmi C. Jain, **Branko Kovačević, Springer Verlag, 2016, AISC, Volume 357, Volume 2, pag. 925-938, (ARC Cat. C, SCOPUS)**
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60. S. Senthil Kumar, H. Hannah Inbarani, Ahmad Taher Azar, Hala S. Own, Valentina Emilia Balas, Teodora Olariu, *Optimistic Multi-Granulation Rough set based Classification for Neonatal jaundice*, In volume *Advances in Intelligent Systems and Computing*, Series Ed.: Kacprzyk, Janusz, Proceedings of the 6th International Workshop on Soft Computing Applications SOFA 2014, July 22-24, 2014, Timisoara, Romania, Guest Editors: Valentina E. Balas, Lakhmi C. Jain, **Branko Kovačević, Springer Verlag, 2016, AISC, Volume 356, Vol. 1, pag. 307-318, (ARC Cat. C, SCOPUS)**
61. Ahmad Taher Azar, Hanaa S. Ali, Valentina E. Balas, Teodora Olariu, Rujita Ciurea, *Diagnosis Boosted Decision Trees for Vertebral Column Disease Diagnosis*, In volume *Advances in Intelligent Systems and Computing*, Series Ed.: Kacprzyk, Janusz, Proceedings of the 6th International Workshop on Soft Computing Applications SOFA 2014, July 22-24, 2014, Timisoara, Romania, Guest Editors: Valentina E. Balas, Lakhmi C. Jain, **Branko Kovačević, Springer Verlag, 2016, AISC, Volume 356, Vol. 1, pag. 319-334, (ARC Cat. C, SCOPUS)**
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63. S. Rakesh kumar, K. Ramkumar, Seshadhri Srinivasan, Valentina Emilia Balas, Fuqian Shi, *Self-Calibration of Dead Reckoning Sensor for Skid-Steer Mobile Robot Localization Using Neuro-Fuzzy Systems*, Volume 2, Proceedings of the 2015 International Conference on Information Technology and Intelligent Transportation Systems ITITS 2015, held December 12-13, 2015, Xi'an China, Editors: [Valentina Emilia Balas](#), [Lakhmi C. Jain](#), [Xiangmo Zhao](#), ISBN: 978-3-319-38769-7, Volume 455 of the series [Advances in Intelligent Systems and Computing](#), 2017, pp 541-551.
64. **Sirshendu Hore, Sankhadeep Chatterjee, V. Santhi, Nilanjan Dey, Amira S. Ashour, Valentina Emilia Balas, Fuqian Shi, Indian Sign Language Recognition Using Optimized Neural Networks, Volume 2, Proceedings of the 2015 International Conference on Information Technology and Intelligent Transportation Systems ITITS 2015, held December 12-13, 2015, Xi'an China, Editors: Valentina Emilia Balas, Lakhmi C. Jain, Xiangmo Zhao, ISBN: 978-3-319-38769-7, Vol. 455 of the series Advances in Intelligent Systems and Computing, 2017, pp 553-563.**

D. Papers published in journals and volumes of conferences with referees (not indexed)

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.
2. Ahmad. T. Azar, Valentina E. Bălaș, *Artificial Neural Network for Electromyografic Classification*, 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. 238-251.
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. Patents obtained in the entire activity -

NO

F. Research contracts

Director of International Grants/Projects

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-ceed-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,
Project won through competition in India - May 2016, carried out in September 2016, the only teacher selected in Romania.
<http://www.sici.org/programmes/details/global-initiative-for-academic-network-gian-programme/>
http://www.nits.ac.in/gian/Brochure_Fuzzy_Interpolative_Controller_and_Appln_V_Balas.pdf
4. Project with code PN-III-P3-3.1-PM-RO-CN-2018, position 10 from the list of 29 approved projects:
<https://www.uefiscdi.ro/https://resource-84873://> - **PN3-P3-554/16.07.2018 - Romania – People's Republic of China Bilateral Cooperation Competition**, project directors Oana Geman, Stefan cel Mare University of Suceava and Guojun Wang, Guangzhou University, Guangzhou, Guangdong, China, partner Aurel Vlaicu University of Arad with project director Valentina E. Balas with the title **TECHNIQUES INTELLIGENT FOR**

MEDICAL APPLICATIONS USING SENSOR NETWORKS, acronym GUSV, Information and Communication Technologies Field, value 79,488 lei, duration 2 years.

5. **A number of 100 Travel grants of 3000 EURO** each for holding invited conferences and starting joint research in India, Japan, Taiwan, China, Singapore, USA, Hungary, Azerbaijan, Pakistan, Iran, Rwanda, France.

Director of National Grants/Projects

Over 25 projects carried out at CCSIT Vagoane Arad as project director for the electrical/electronic part, projects obtained through competition within the group of rolling stock manufacturing companies in Romania.

6. *Positioning and rotation table 1000 Kg for the nuclear program (project director - electrical part V. E. Balas).* Code: 291-84 MPR. Beneficiary: ISIM Timișoara. Executor: C.C.S.I.T.V.A. Value: 100,000 ROL.
7. *Positioning and rotation table 4000 Kg, for the nuclear program (project director - electrical part V. E. Balas).* Code: 292-84MPR. **Beneficiary: ISIM Timișoara.** Executor: C.C.S.I.T.V.A. Value: 150,000 ROL.
8. *Installation for cutting the sheet from the roll (project manager - electrical part V. E. Balas).* Code: 2-85 ISP. Beneficiary: I.V.Caracal. Executor: C.C.S.I.T.V.A. Value: 140,000 ROL.
9. *Metro bogie second generation (project director - electrical part V. E. Balas).* Code: 5-85-BMG II. Beneficiary: I.V.ARAD. Executor: C.C.S.I.T.V.A. Value: 200,000 ROL.
10. *Brake cylinder body rolling machine (project manager - electrical part V. E. Balas).* Code: **6-85MUS.** **Beneficiary: I.V.Arad. Executor: C.C.S.I.T.V.A. Value: 1,000,000 ROL.**
11. *Brake cylinder cover rolling machine (project manager - electrical part V. E. Balas).* Code: **16-85MUS.** **Beneficiary: I.V.Arad. Executor: C.C.S.I.T.V.A. Value: 700,000 ROL.**
12. *Buffer plate multi-axis drill (project manager - electrical part V. E. Balas).* Code: **47-85AG. Beneficiary: I.V.Drobeta Tr.Severin. Executor: C.C.S.I.T.V.A. Value: 300,000 ROL.**
13. *PKP-Poland Buffer Base Plate Drill (Project Manager - Electrical Part V. E. Balas).* Code: **52-85AG.** **Beneficiary: I.V.Drobeta Tr.Severin. Executor: C.C.S.I.T.V.A. Value: 250,000 ROL.**
14. *Lever drilling unit (project manager - electrical part V. E. Balas).* Code: **6-86AG. Beneficiary: I.V.Caracal. Executor: C.C.S.I.T.V.A. Value: 250,000 ROL.**
15. *Brake cylinder edging and trimming machine (project manager - electrical part V. E. Balas).* Code: **16-86MBR. Beneficiary: I.V.Arad. Executor: C.C.S.I.T.V.A. Value: 400,000 ROL.**
16. *Cable stand (project director - electrical part V. E. Balas).* Code: **25-86ST. Beneficiary: I.V.Arad. Executor: C.C.S.I.T.V.A. Value: 270,000 ROL.**
17. *Research on the realization of a complex installation for performing dynamic tests type AAR (USA), (project director - electrical part V. E. Balas).* Code: **51-87STC. Beneficiary: C.C.S.I.T.V.A. Executor: C.C.S.I.T.V.A. Value: 1,200,000 ROL.**
18. *Complex stand for tested metro couplings (project manager - electrical part V. E. Balas).* Code: **6-88STC.** Beneficiary: I.V.Arad. Executor: C.C.S.I.T.V.A. Value: 300,000 ROL.
19. *Dynamometer wagon (project director - cable TV installation, intercom, sound system V. E. Balas).* Code: 207. 1988, Beneficiary: I.V.Arad. Executor: C.C.S.I.T.V.A. Value: 2,500,000 ROL.
20. *Technology for welding the poles of the gondola wagons with program control in a protective environment type CO2 (project director - electrical part V. E. Balas).* Code: 24-89 ISR. Beneficiary: I.V.Arad. Executor: C.C.S.I.T.V.A. Value: 1,000,000 ROL.
21. *Winch for longitudinal movement when riveting (project manager - electrical part V. E. Balas).* Code: **4-90 D.** Beneficiary: I.V.Arad. Executor: C.C.S.I.T.V.A. Value: 150,000 ROL.
22. *Installation for painting wagons in an electrostatic field (project manager - electrical part V. E. Balas).* Code: 6-91 ISR. Beneficiary: M.E.V.A. Dr. Tr.- Severin. Executor: C.C.S.I.T.V.A. Value: 700,000 ROL.
23. *Oversized transport wagon on 24 axles (project manager - electrical part V. E. Balas).* Code: 653.36-36., 1991, Beneficiary: Electroputere Craiova. Executor: C.C.S.I.T.V.A. Value: 1,500,000 ROL.
24. *Wagon commands personnel (project director - special electrical installations V. E. Balas).* Code: AAP., 1992, Beneficiary: Ministry of National Defense. Executor: C.C.S.I.T.V.A. Value: 200,000 ROL.
25. *Clinical and radiological wagon (project director - special electrical installations V. E. Balas).* Code: AAT., 1992, Beneficiary: M. Ap. N. Executor: C.C.S.I.T.V.A. Value: 220,000 ROL.
26. *Pharmacy wagon (project director - special electrical installations V. E. Balas).* Code: AAV., 1992, beneficiary: M. ap. n. executor: C.C.S.I.T.V.A. Value: 200,000 ROL.
27. *Plant wagon (project manager - special electrical installations V. E. Balas).* Code: AAW., 1992, Beneficiary: M. ap. n. Executor: C.C.S.I.T.V.A. Value: 300,000 ROL.
28. *Operating room wagon (project director - special electrical installations V. E. Balas).* Code: AAR, 1992, Beneficiary: M. Ap. N. Executor: C.C.S.I.T.V.A. Value: 175,000 ROL.
29. *Wagon for resuscitation and transport of the wounded (project director - special electrical installations V. E. Balas).* 1993, Code: AAS. Beneficiary: M. Ap. N. Executor: C.C.S.I.T.V.A. Value: 200,000 ROL.
30. *Dressing room wagon (project director - special electrical installations V. E. Balas).* 1993, Code: AAU. Beneficiary: M. Ap. N. Executor: C.C.S.I.T.V.A. Value: 200,000 ROL.
26. **CNCSU Grant No. 107, obtained through competition – Devices, Circuits and Microsystems" in cooperation with the "Polytechnic" University of Bucharest – Prof. Mircea Rusu, through the World Bank.** Code: CNCSU, No. 107. Executor: Polytechnic University of Timisoara. Fellowship - **V. E. Balas** November-December 1999,

- Fuzzy Smart Sensors, at the LAMIA laboratory, Annecy, France. Value: \$2000.
27. **CNCSU Grant No. 107, obtained through competition** – *Devices, Circuits and Microsystems* in cooperation with the "Polytechnic" University of Bucharest – Prof. Mircea Rusu, through the World Bank. Code: CNCSU, No. 107. Executor: Polytechnic University of Timisoara. Scholarship - **V. E. Balas**, January-February 2001, Fuzzy Smart Sensors, at the LAMIA laboratory, Annecy, France, Value: \$2000.
 28. **Project obtained through competition: Organization of the Summer School – "Soft Computing" – second edition, with international participation – Canada, in English.** July 2003. "Aurel Vlaicu" University of Arad. **Director** - **V. E. Bălas**, collaborator - Arad County Council, Cultural Center. Value: 2,000 RON.
 29. **Project obtained through competition: Organization of the Summer School – "Soft Computing" – third edition, with international participation – Canada, in English.** August 2004. "Aurel Vlaicu" University of Arad. **Director** - **V. E. Bălas**, collaborator - Arad County Council, Cultural Center. Value: 2,500 RON.
 30. **Project obtained through competition: Organization of the Summer School – "Soft Computing" – fourth edition, with international participation – Canada, in English.** July 2005, Provision 228/18.05 2005, "Aurel Vlaicu" University of Arad. **Director** - **V. E. Bălas**, collaborator - Arad County Council, Cultural Center. Value: 8,000 RON.
 - 31tag. **Project obtained through competition: Organization of the Summer School – "Soft Computing" – fifth edition, with international participation – Canada, in English.** July 2006. "Aurel Vlaicu" University of Arad, **Director** - **V. E. Bălas**, collaborator – Arad County Council, Cultural Center. Value: 3,000 RON.
 32. **Research contract obtained through competition from SC TAKATA SA: Automation Laboratory with Mitsubishi PLC Equipment,** September 2007, "Aurel Vlaicu" University of Arad, **Contract Director** - **Valentina E. Bălas**, 1600 EURO.
 33. UEFISCDI Funding Contract - **48/29.11.2016** - Subprogram 1.1 - Human Resources - Mobility Projects for Researchers with Experience in the Diaspora – **Submission Code PN-III-P1-1.1-MCD2016-0108, Responsible** – **Valentina E. Balas**, Diaspora Researcher – Dan Ralescu, University of Cincinnati, USA, Value - **2100 EURO**, project obtained through national competition.
- Project obtained through competition,** Arad Municipal Cultural Center - CMCA, Contract no. 4862/10.08.2016, 23,000 lei,
Director de proiect – **Valentina E. Balas**, Soft Computing and Applications.
34. **Research contract obtained through competition with SC CONTACT PLUS SRL Arad. "Research on the development of new methods of fusion of knowledge and applications",** May 2005, No. 1570/11.05 2005, "Aurel Vlaicu" University of Arad. **Head of contract** - **V. E. Balas**. Value: 5,000,000 ROL.
 35. **Research contract obtained through competition** No. 05/12.12.2007 with SC Ovidiu Nicola SRL "Research on the realization of a rain sensor", "Aurel Vlaicu" University of Arad, **Contract manager** - **Valentina E. Balas**, 1.000 RON
 36. **Research contract obtained through competition** No. 2726/22.05.2008 with SC Ready SRL "Research on applications of artificial intelligence in technology", "Aurel Vlaicu" University of Arad, **Contract Manager** - **Valentina E. Balas**, 1.000 Ron
 37. **Research contract obtained through competition** No. 433/19.02.2010 with SC Ready SRL "Research on applications in the field of intelligent systems", "Aurel Vlaicu" University of Arad, **Contract Manager** - **Valentina E. Balas**, 500 Ron.
 38. **Research contract obtained through competition** No. 5095.05.11.2010 with SC Computer Voice Systems Romania SRL "Research on the Study of the Opportunity of Using GWT Technology for Web Applications with Real Time Data Flow", "Aurel Vlaicu" University of Arad, **Contract Officer** - **Valentina E. Balas**, 1000 Ron.
 39. Competition Awarding research results at the Aurel Vlaicu University of Arad, March 2016, 2100 Euro – **Valentina E. Balas**.
 40. **Project obtained through competition** with the Municipal Center of Culture of Arad - CMCA, Youth, Education and Recreation Program 2017, position 20, 12,200 lei, **Project Director** – **Valentina E. Balas**, Research in the field of Artificial Pancreas, with the participation of Prof. T.C. Lin, Taichung University, Taiwan.
 41. **Scientific research contract** obtained through competition no. 9542/22.12.2017, with SC Contact Plus SRL Arad, "Modeling, simulation, experimentation and validation of new advanced software computing methods in the field of smart building control", **Project Director** – **Valentina E. Balas**, Value 40,000 lei (\$10,000).
 42. **Project code:** PN-III-P1-1.1-MCD-2019-0133, **Contract no.:** 23/24.09.2019 – mobility of researchers from the diaspora – Prof. Stefan Bratosin, France **Project director** – **Valentina E. Balas**
 43. **Project code :** PN-III-P1-1.1-MCD-2019-0133, **Contract no.:** 23/24.09.2019 – mobility of researchers from the diaspora – Prof. Dumitru Baleanu, Turkey, **Project Director** – **Valentina E. Balas**

Member of international grant/project collectives

44. International Programme, **Bilateral/Multilateral Cooperation Projects, Programme: Capacities / Module III, Bilateral Cooperation between Romania and Bulgaria**, Title: "Electronic Health Records for the Next Generation Medical Decision Support in Romanian and Bulgarian National Healthcare Systems", Acronym: **NextGenElectroMedSupport**, The leading institution in the country is the Petru Maior University of Târgu Mureș, the leading university in Bulgaria is the Technical University of Sofia. Project directors: Bulgaria - Prof.

dr. Roumen Kountchev Technical University from Sofia, Bulgaria, Romania - general director - Barna Iantovics, team members/researchers: **Valentina E. Bălaș**, Marius M. Bălaș, **August 2010-August 2012**.

International Programme, **National Plan for Research, Development and Innovation 2007-2013-PN II, Capacities / Module III, Bilateral/Multilateral Cooperation Projects**, Bilateral Cooperation between Romania and Slovakia

Titlu: "**Hybrid Medical Complex Systems**",

Acronym: ComplexMediSys

CO: Petru Maior University of Targu Mures

CO: Slovak Academy of Sciences, Bratislava

Director: Ladislav Hluchý (Slovakia) and Barna Iantovics (Romania)

Team members/researchers: **Valentina E. Bălaș**, Marius M. Bălaș,

January 2011-January 2013.

45. 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 HFDM 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
46. Member in the project ERASMUS-EDU-2024-POL-EXP-DIGITAL-101195721 — GLITTER, research member, duration 12 months, budget EUR 996558, 2025.

Member of national grant/project collectives

47. **CNCSIS Grant** "Research for the implementation of strategies based on fuzzy logic and neural networks for the detection and diagnosis of defects, with application to electrical drive control systems". July 2004. Main contractor: "Politehnica" University of Timisoara. **members of the UAV** – M.M. Balas and **V. E. Bălaș**. Value: 800 EURO.
48. **Grant PN – II WE CNCSIS Code: 47**, Co-financing contract with the National Authority for Scientific Research No. 316 / 09.04.2008, Exploratory Workshop " *From Natural Language to Software Computing: New Paradigms of Artificial Intelligence*", Head of the Research Institute for Artificial Intelligence of the Romanian Academy – Acad. Dan Ioan Tufiş, 30,000 Ron, **Collaborator** – **Valentina E. Bălaș**,
49. **POSDRU/89/1.5/S/56287**, *Postdoctoral Programs at the Forefront of Research of Excellence in Information Society Technologies and Development of Innovative Products and Processes*, Project co-financed by the European Social Fund through the Sectoral Operational Program Human Resources Development 2007-2013, Project implemented by the National Institute for Research and Development for Textiles and Leather – INCDTP in partnership with the Bucharest Academy of Economic Studies – Research Center Regional Analysis and Policies, University of Oradea and ASSOCIATION GROUPE ESSEC, **Member of the target group** – **Valentina E. Bălaș**, Activity 4 – Training and improvement within the pilot postdoctoral training programs through courses held by ESSEC Business School – France.
50. Member of the grant team, **Responsible WP 3** of the Competitiveness Operational Program 2014-2020, Priority Axis 1 – Research, technological development and innovation (RDI) in support of economic competitiveness and business development, Action 1.1.4 – Attracting personnel with advanced skills from abroad to strengthen the R&D capacity. Project Title: *New cell-type biologically inspired nano-architectures – for integrated circuits, Nano-ART-BioCell – P_37_744*, **value 8,502,600 lei, 2016-2019**
Responsible for the WP 3 package – **Valentina E. Balas**
51. **Research contract** obtained through competition No. 03 of 10.10.2013 with SC S.C MBB S.R.L "Modeling and simulation of heat treatment processes", "Aurel Vlaicu" University of Arad, *Contract manager* - Marius M. Balas, Member of the research team - **Valentina E. Balas**, 1000 Ron
52. **Scientific research contract** obtained through competition no. 10/16.07.2019, with UAV entry number: 4693/16.017.2019, with SC Contact Plus SRL Arad, "Promotion of agriculture in urban areas: mathematical models and concrete solutions", Member of the project team – **Valentina E. Balas**, Value 42,000 lei (\$10,000).
- Project name: **Evaluation, modeling and simulation of advanced software computing methods in the field of electricity production with the help of photovoltaic panels**.
Project director: Flavius-Maxim Petcuț
Project member: **Valentina E. Balas**
Implemented by: AUREL VLAICU UNIVERSITY, Ctr. No. 5578/03.06.2025,
And financed by S.C. ANTACO BILLING SYSTEMS S.R.L Nr. Ctr. 2172/03.06.2025, Worth: 55000 lei (approximately 11,000 Euro).
Duration 5 years: July 1, 2025 - June 30, 2030

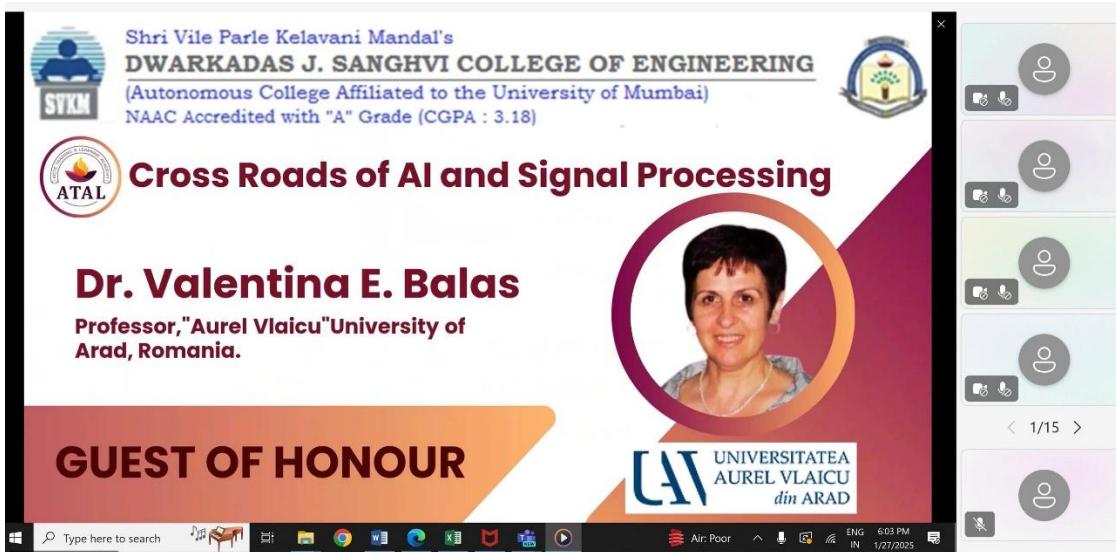
Other achievements

Invited conferences

2025

1. Chief Guest for online Faculty Development Programme at AICTE Training and Learning (ATAL) Academy, One-Week Online – Title: "*Cross Roads of AI and Signal Processing*", on 27 January 2025.

The event was organized by Department of Electronics & Telecommunication Engineering, Dwarkadas J. Sanghvi College of Engineering, Vile Parle (W), Mumbai, Maharashtra, INDIA.



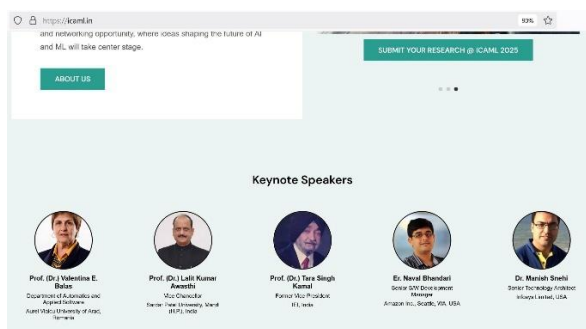
2. Keynote Speaker and General Chair at the International Conference on AI and Financial Innovation (AIFI-2025) – Title: "*Understanding Knowledge Through Visual Representation*" organized by the Interscience Institute of Management and Technology, on February 7, 2025, in Bhubaneswar, INDIA.

<https://iimt.ac.in/AIFI2025/pc.php>



3. Keynote Speaker at the International Conference on Applications of AI & Machine Learning (ICAML-2025), Title: "*Innovative Smart Cities for a Sustainable Future*", organized by The Institution of Engineers (India) – IEI, in collaboration with the Association of Professionals, Chandigarh, India, on 22–23 February 2025.

<https://icaml.in/>
<https://royalpatiala.in/international-conference-on.../>



- General Co-Chair and Invited Speaker at the 3rd International Conference on Intelligent Systems, Advanced Computing, and Communication (ISACC 2025), Title: “*Watergy – the common management of water and energy*”, on February 27-28, 2025. The event was organized by the Department of Computer Science and Engineering, Assam University, Silchar, Assam, India.

<https://www.isacc.in/>



- General Chair at 5th International Conference on Emerging Science and Technology, Welcome speech: “*Current Research in Emerging Science and Related Technology*”, February 27, 2025, Lahore, Pakistan, organized by the Departments of Physics, Govt. Islamia Graduate College Civil Lines, Lahore, Pakistan and HIBA International University (OLC Canada).

https://www.pjst.com/wp-content/uploads/2025/02/ICEST_Abstract_Book.pdf

- Guest Speaker in the International Seminar on "Recent Advances in Fuzzy Mathematics and

its Applications", Title: "Fuzzy Mathematics and its Applications" organized by the Department of Mathematics, ADM College for Women (Autonomous), Nagapattinam, INDIA, 14th March 2025.

The collage contains the following information:

- RESOURCE PERSONS:**
 - Dr. Animesh Biswas, Professor, Department of Mathematics, University of Allahabad.
 - Dr. Sanjewa Perera, Professor, Department of Mathematics, Faculty of Science, University of Colombo.
 - Dr. Valentina E. Balas, Professor, Aurel Vlaicu University of Arad.
 - Dr. Sunny Kurikose, Professor, Department of Mathematics & Statistics, Government College of Management and Science.
- ORGANIZING COMMITTEE:**
 - CHIEF PATRON:** Thiru. N. RAMESHVARAN, Secretary.
 - PATRON:** Dr. S. ANBESSELU, Principal.
 - ADVISORY COMMITTEE:** Dr. A. SIVAKAMARAJAN, College Advisor; Dr. S. GOPALA MOHESWARI, Coe; Dr. N. KARAKA, IIT of Mathematics.
 - CONVENORS:** Dr. S. VANITHA, Assistant Professor of Mathematics; Dr. S. JAYANARAYAN, Assistant Professor of Mathematics; Dr. S. SUDHA, Assistant Professor of Mathematics; Mrs. S. SUDHAKARANI, Assistant Professor of Mathematics.
 - INTERNATIONAL NATIONAL ADVISORY COMMITTEE:** Dr. T. B. Senthilvelu-Sageela, Professor of Mathematics; Dr. S. S. Senthilvelu, Professor, Regional Center, Coimbatore, Kerala; Dr. M. Srinivasan, Professor and Head, Vellore Institute of Technology, Vellore; Dr. V. Lakshmi, Professor and Head, Institute of Technology, Anna University, Chennai; Dr. S. Srinivasan, Assistant Prof. of Mathematics, JCU, Jaipur; Dr. S. Srinivasan, Asst. Prof., JCU, Jaipur; Dr. S. Srinivasan, PDR, Krishnaiah College, Chittoor; Mrs. M. Prabhavathi, Assistant Professor of Mathematics; Dr. S. Srinivasan, Asst. Prof., JCU, Jaipur; Dr. S. Srinivasan, Asst. Prof., JCU, Jaipur; Dr. S. Srinivasan, Asst. Prof., JCU, Jaipur.
- CONFERENCE DETAILS:**
 - A.D.M. COLLEGE FOR WOMEN AUTONOMOUS**, Affiliated to Bharathidasan University, Tiruchirappalli. (Nationally Accredited with A Grade by NAAC 4th cycle) - NAGAPATTINAM.
 - DEPARTMENT OF MATHEMATICS**, Organized by.
 - INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN FUZZY MATHEMATICS AND ITS APPLICATIONS**.
 - UNDER DBT STAR COLLEGE SCHEME**.
 - Date: 14.03.2025**
 - Registration Link:** <https://forms.gle/5t6hNDEe8tGm5g4y>
- POSTER:**
 - INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN FUZZY MATHEMATICS AND ITS APPLICATIONS**.
 - Fuzzy Mathematics and its Applications**.
 - Valentina E. Balas**.
 - March 14, 2025**.
 - Nagapattinam, INDIA**.
 - "Aurel Vlaicu" University of Arad, Romania, Academy of Romanian Scientists.**
 - e-mail: balas@drbalas.ro**

- Special Guest at International Conference on Engineering Trends in Education Systems & Sustainability (ICETESS 2025), Jaipur Engineering College & Research Centre (JECRC), April 18-19, 2025, Jaipur, India, Title: "AI and Education System".
<https://jecrcconference.in/icetess2025/eminent-guest.html>
[ICETESS-2025](https://icetess-2025)

The poster includes the following details:

- ICETESS 2025** International Conference on Engineering Trends in Education Systems and Sustainability (ICETESS-2025).
- Springer 2025** logo.
- JECRC** JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE.
- CELEBRATING 25** years.
- Special Guest**: VALENTINA EMILIA BALAS, Professor, Habil. PhD @ Aurel Vlaicu University of Arad, Romania.
- Date:** April 18-19, 2025.
- Venue:** Jaipur Engineering College and Research Centre, Jaipur.
- Logos:** JECRC, JMCH, Springer, MATEC Web of Conferences.

- Honorary Chair at the 2nd International Conference on Recent Advances in Artificial Intelligence, Computer Vision & Smart Systems, ICRACS 2025, organized by the Department of Artificial Intelligence & Data Science at Poornima Institute of Engineering & Technology, 16-17 April 2025, Jaipur, India, Title: "AI and Intelligent Systems".
<https://icracs-conference.vercel.app/committee>

POORNIMA
INSTITUTE OF ENGINEERING & TECHNOLOGY
Affiliated to RTU, Kota - Approved by AICTE & UGC under 20 - Accredited by NAAC

2nd ICRACS
INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN ARTIFICIAL INTELLIGENCE, COMPUTER VISION & SMART SYSTEMS

Prof. Valentina Emilia Bălaș
FACULTY OF ENGINEERING, AUREL VLAICU UNIVERSITY OF ARAD, ARAD, ROMANIA

HONORARY CHAIR

APRIL 16, 2025 | PIET, JAIPUR | @piet_jaipur

KNOW MORE

2nd ICRACS
INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN ARTIFICIAL INTELLIGENCE, COMPUTER VISION & SMART SYSTEMS

Honorary Chair
Prof. Valentina Emilia Bălaș

Conference Chair
Prof. (Dr.) Ravi Kumar Arya

TPC Chair
Prof. Atulya Nagar

Organizers

Principal & Director
Dr. Dinesh Goyal

Head AI & DS, PIET
Dr. Budesb Kanwar

Associate Professor
Dr. Sandeep Gupta

APRIL 16-17, 2025

9. General Chair & Keynote Speaker at the 4th International Conference on Innovation in Computing (ICIC-2025), held at CGC College of Engineering, April 24, 2025, Landran, Mohali, INDIA, Title: “*Innovation in Computing*”.
<https://icic.co.in/>

CGC COLLEGE OF ENGINEERING
Building Culture, Transforming Lives.

ICIC
International Conference on Innovation in Computing

ICIC 2025
Pushing the Limits of Tech Innovation!

24th - 25th April 2025

Organized by CGC College of Engineering, Landran, Mohali (Pb)

CHIEF GUEST
Prof. Shantanu Bhattacharya
Director, CSIR-Central Scientific Instruments Organisation (CSIO), Chandigarh

GUEST OF HONOUR
Dr. D Vijay Rao
Scientist G, Group Director (War-games and Simulation), Institute for Systems Studies and Analysis (ISSA), Defence Research and Development Organisation (DRDO)

Keynote Speaker
Prof. Valentina Emilia Balas
Professor, Aurel Vlaicu University of Arad / Academy of Romanian Scientists, ROMANIA

Eminent Speaker
Dr. Gagangeet Singh Auja
Associate Professor, Dept. of CSE, Durham University, UK

Keynote Speaker
Prof. Stella Fabio Antonio
University of Milano-Bicocca, Milano

24th April 2025
10:00 AM onwards
Main Auditorium

SPONSORS
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10. Chief Guest at the World Conference on Statistical Inference (WCSI 2025), organized by the Department of Statistics, Bharathiar University, Coimbatore, Tamil Nadu, INDIA. Title: “*Statistics and Fuzzy Logic: Two Paradigms for Modeling Ambiguity and Variability*”
[World Conference on Statistical Inference WCSI 2025 Hybrid mode](#)

World Conference on Statistical Inference WCSI 2025 Hybrid mode

Statistics and Fuzzy Logic: Two Paradigms for Modeling Ambiguity and Variability

dedicated to Prof. Prasanta Chandra Mahalanobis, the father of Indian statistics and to the memory of great scientist Professor Lotfi A. Zadeh – celebration of 60 years of FUZZY LOGIC





Fuzzy Sets*
L. A. Zadeh
Department of Electrical Engineering and Electronic Research Laboratory,
University of California, Berkeley, California

A fuzzy set is a class of objects with a continuum of grades of membership. This is in contrast to a membership function which assigns to each object a grade of membership ranging between zero and one. The notions of inclusion, union, intersection, complement, relative, convexity, etc., are extended to such sets, and various properties of these notions in the context of fuzzy sets are established. In particular, a separation theorem for convex fuzzy sets is proved without requiring that the fuzzy sets be disjoint.



Valentina Emilia Balas



Aurel Vlaicu University of Arad, ROMANIA
Academy of Romanian Scientists
balas@drbalas.ro

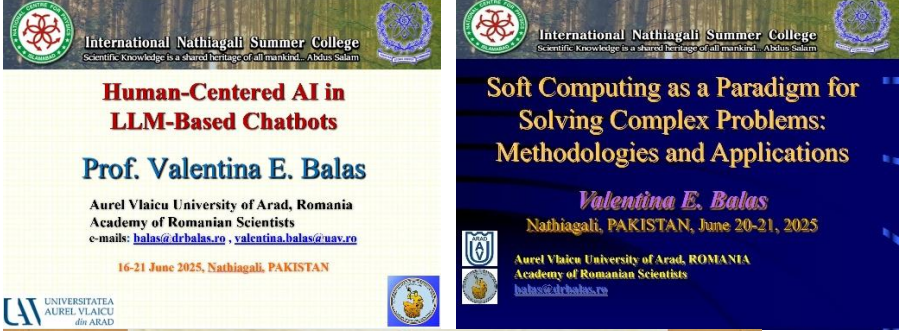


Bharathiar University, Coimbatore, INDIA, June 29, 2025

11. Invited Speaker at the 50th edition of International Nathiagali Summer College (INSC) on Physics and Contemporary Needs, in the Artificial Intelligence and Machine Learning section. Title 1: “*Human-Centred AI in LLM-Based Chatbots*” and Title 2: “*Soft Computing as a Paradigm for Solving Complex Problems: Methodologies and Applications*”.

The event was organized by the Pakistan Atomic Energy Commission (PAEC).

<https://insc.npc.edu.pk/insc-2025.php>



Human-Centered AI in LLM-Based Chatbots

Prof. Valentina E. Balas

Aurel Vlaicu University of Arad, Romania
Academy of Romanian Scientists
e-mails: balas@drbalas.ro, valentina.balas@uav.ro

16-21 June 2025, Nathiagali, PAKISTAN

Soft Computing as a Paradigm for Solving Complex Problems: Methodologies and Applications

Valentina E. Balas







Nathiagali, PAKISTAN, June 20-21, 2025

Aurel Vlaicu University of Arad, ROMANIA
Academy of Romanian Scientists
balas@drbalas.ro



12. Keynote Speaker at the 11th International Conference on Electrical Energy Systems (ICEES-2025) IEEE sponsored, organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai, on 23 August 2025.

<https://www.icees2025.in/>

Keynote Address	Speaker	Venue / Meeting Link	Date & Time
KEYNOTE ADDRESS 1	 Dr. Anandhan K Das Professor School of Engineering Technology COE University, Autonomo	Santhosh Hall Department of EEE Gandhi College, Chennai	August 21, 2025 (Thursday) 10:00 AM - 11:30 AM
KEYNOTE ADDRESS 2	 Dr. Karamanidis Professor Department of Informatics University of Piraeus	Santhosh Hall Department of EEE Gandhi College, Chennai	August 21, 2025 (Thursday) 11:00 AM - 01:00 PM
KEYNOTE ADDRESS 3	 Dr. S. Suresh Babu Associate Professor School of Engineering Sri Sivasubramanya Nadar College of Engineering	Santhosh Hall Department of EEE Gandhi College, Chennai	August 22, 2025 (Friday) 10:00 PM - 02:00 PM
KEYNOTE ADDRESS 4	 Dr. Marco Rivera Professor Department of EEE University of Northumbria United Kingdom	Santhosh Hall Department of EEE Gandhi College, Chennai	August 22, 2025 (Friday) 05:30 PM - 07:30 PM
KEYNOTE ADDRESS 5	 Dr. Cheng Chen Professor & Director of Research Department of Marine Technology Harbin Engineering University Dalian, China	Santhosh Hall Department of EEE Gandhi College, Chennai	August 23, 2025 (Saturday) 09:00 AM - 10:00 AM
KEYNOTE ADDRESS 6	 Prof. Valentina Emilia Balas Department of Automatics & Applied Software Aurel Vlaicu University of Arad, Romania	Santhosh Hall Department of EEE Gandhi College, Chennai	August 23, 2025 (Saturday) 01:00 PM - 02:00 PM



13. Invited Speaker at the 2025 Smart Sensor Asia·Robotics Conference, August 27–28, 2025 in Shenzhen, China.

<http://en.ssa-te.com/> , <https://lnkd.in/d7VNd3YK> , <http://en.ssa-te.com/>



2025 Smart Sensor Asia Robotics

A Fuzzy Logic Framework for Sensor Performance Enhancement in Robotics and Automation

Prof. VALENTINA EMILIA BALAS

Shenzhen, CHINA, August 28, 2025

 "AUREL VLAICU" University of Arad, ROMANIA,
 Department of Automation and Applied Software
 Academy of Romanian Scientists
 e-mails: balas@drbalas.ro, valentina.balas@uav.ro

亚洲机器人智能传感系统应用大会

Smart Sensor Asia·Robotics

Date
August 27-28, 2025

Venue
Kempinski Hotel, Shenzhen
Guangdong, China

Valentina Emilia Balas
Professor



Guest Introduction

Speech topic : 《 A Fuzzy Logic Framework for Sensor Performance Enhancement in Robotics and Automation》

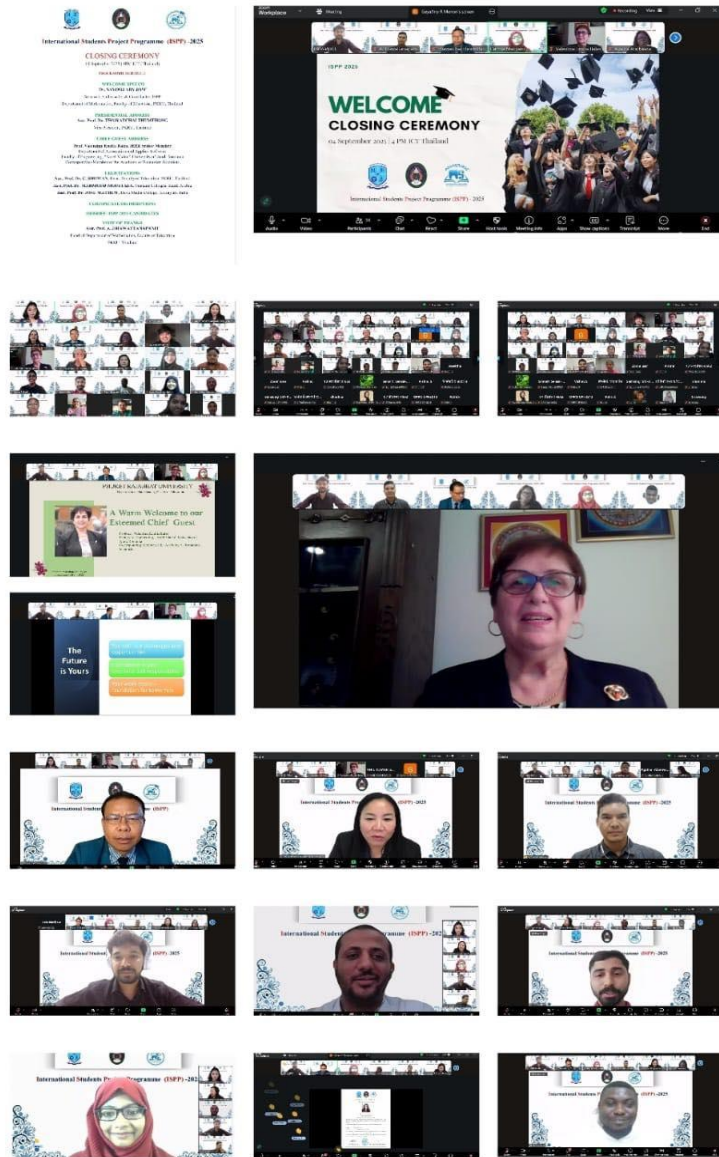
Valentina E. Balas, Habil. Professor at "Aurel Vlaicu" University of Arad, Romania, holds a Cum Laude PhD in Applied Electronics and Telecommunications from Polytechnic University of Timisoara, heads its Intelligent Systems Research Centre, has over 400 papers and 100+ books (Elsevier, etc.) with some book series, researches Intelligent Systems, Fuzzy Control, etc., is Editor-in-Chief of IJAIIP & IJCSysE, on editorial boards, evaluates projects/theses, and won 2019 "Tudor Tanasescu" (Romanian Academy) and 2023 "Stefan Odobleja" (Romanian Academy of Scientists) Prizes.



14. Chief Guest at the Closing Ceremony of International Students Project Programme (ISPP-2025), 12-19 August 2025 with the theme “Computational and Integrative Frameworks for Epidemiological Modeling”.

<https://sites.google.com/view/ispp-pkru/ispp-25>

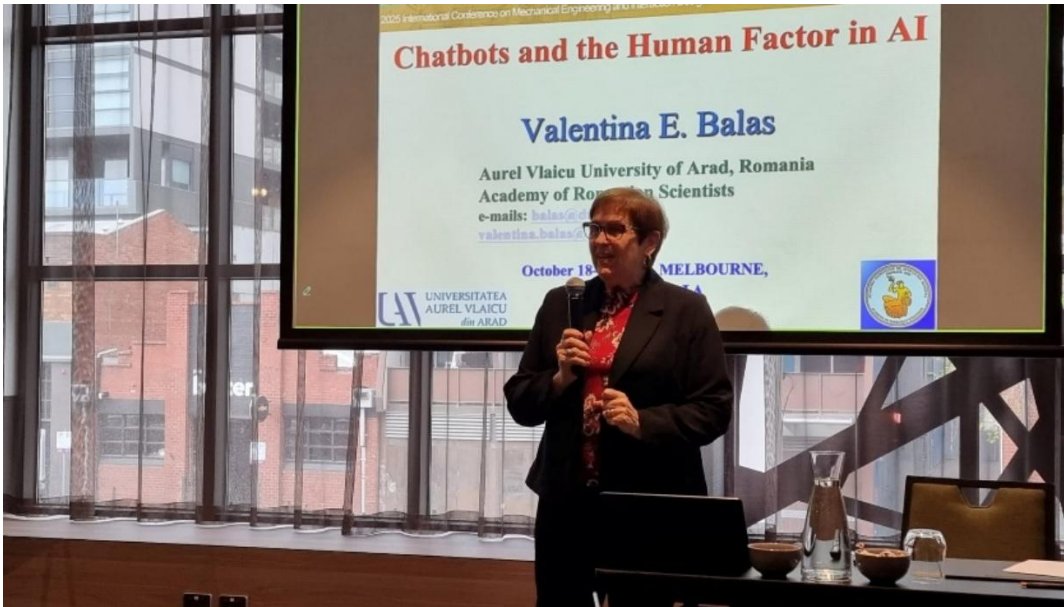
CLOSING CEREMONY



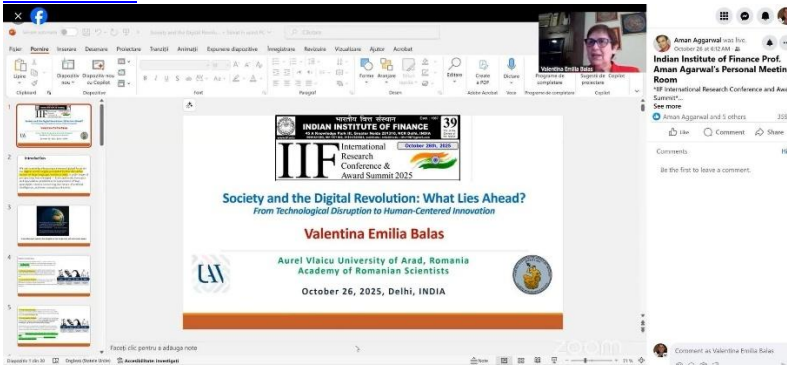
15. Invited Speaker at the International Conference on Mechanical, Engineering and Interaction Design (ICMEID 2025), 18-19 October, 2025, Melbourne, Australia.

Title: *“Chatbots and the Human Factor in AI”*.

<https://icmeid.org/index.htm>



16. Invited Speaker at the IIF International Research Conference and Award Summit, October 26th, 2025, Delhi, India, Title: “*Society and the Digital Revolution: What Lies Ahead?*”, www.iif.edu



17. Keynote Speaker at the 2nd International Conference on Artificial Intelligence and Autonomous Systems (i-CAIAS 2025), organized by the Faculty of Computer Science and Information Technology (FSKTM), Universiti Tun Hussein Onn, MALAYSIA, (UTHM), in collaboration with the IEEE Systems, Man, and Cybernetics (SMC) Malaysia Chapter, held virtually on 29–30 November 2025. Title: “*Beyond the Digital Revolution: The Future of Society*”.

<https://icaias.uthm.edu.my/icaias2025/>



Keynote Speakers



Mr. Danial Azizan Abdullah Henry

Country Head

Google for Education (Malaysia & Brunei)



Professor Valentina Emilia Balas

Professor

Aurel Vlaicu University of Arad / Academy of Romanian Scientist, Romania



Professor Dr. Rozaida Ghazali

Professor

Faculty of Computer Science & Information Technology
Universiti Tun Hussein Onn Malaysia

18. Keynote Speaker and Honorary Chair at the International Conference on Information Science, Technology, and Management (CISTM 2025), held on November 6–7, 2025, and organized by the Department of Computer Science and Engineering, Akal University, Bathinda, INDIA. Title: *“The Evolution of Society into the Age of Artificial Intelligence”*

<https://auts.ac.in/conferences/cistm-25/international-conference-on-information-science-and-technology/>

Our Speakers

Keynote Speakers



Prof. Gaurpreet Singh Dhillon
Professor of IT, IIT, India



Prof. Valentina Emilia Balas
Aurel Vlaicu University of Arad, Romania

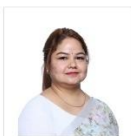
Plenary Talks



Prof. Shengjun Sheng
University of Mal, UK



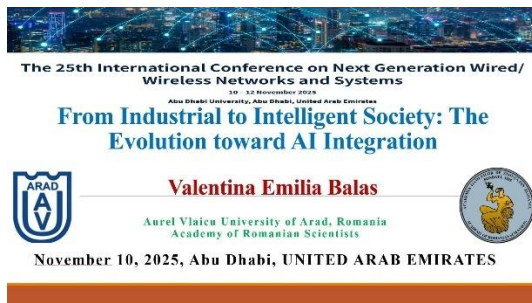
Prof. Sandeep Singh
Chief of University, Punjab, India



Prof. Vidushi Sharma
Chief of University, India, India

19. Keynote Speaker at NEW2AN 2025 - The 25th International Conference on Next Generation Wired/Wireless Networks and Systems, 10–12 November 2025, Abu Dhabi University, United Arab Emirates, Title: *“From Industrial to Intelligent Society: The Evolution toward AI Integration”*.

<https://www.new2an.com/>



Keynote Speakers



Andrey Koucheryavy
Professor, Bonch-Bruyevich Saint-Petersburg
State University of Telecommunications,
Russia



Valentina Emilia Balas
Professor at Aurel Vlaicu University of
Arad,
Romania



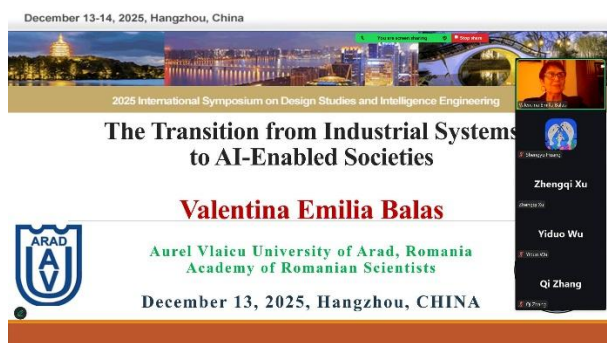
Abir Hussain
University of Sharjah, Sharjah,
United Arab Emirates



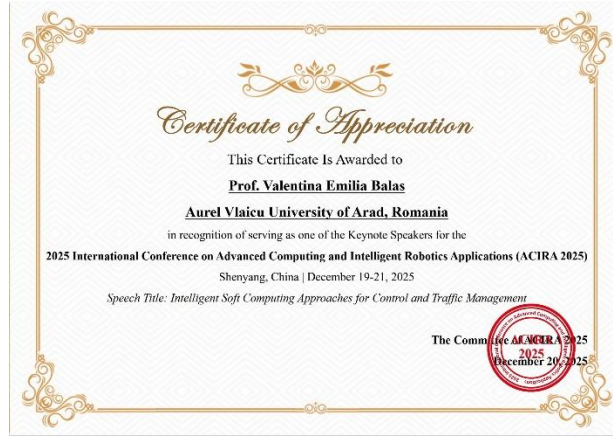
Mohsen Gaizani
Professor at MBZUAI
UAE

20. Keynote Speaker at the 2025 International Symposium on Design Studies and Intelligence Engineering (DSIE 2025), December 13–14, 2025, Hangzhou, CHINA. Title: “*The Transition from Industrial Systems to AI-Enables Societies*”.

<http://www.dsieconf.org/index.htm>



21. Keynote Speaker at the 2025 International Conference on Advanced Computing and Intelligent Robot Applications (ACIRA 2025), held on December 19–21, 2025, Shenyang, China. Title: “*Intelligent Soft Computing Approaches for Control and Traffic Management*”.



22. Chief Guest and Keynote Speaker at the International Conference on Computational Innovations and Sustainable Technologies (ICCIST 2025), 18–19 December 2025, Bangalore, INDIA, organized by the Department of Computer Science, CHRIST (Deemed to be University), Bangalore Yeshwanthpur Campus, in collaboration with the IEEE Computer Society Bangalore Chapter.

Title: “ *From Industrial Paradigms to AI-Enabled Societies*”.

<https://www.iccist.com/>

<https://www.deccanherald.com/.../christ-university-hosts...>



From Industrial Paradigms to AI-Enabled Societies

Valentina Emilia Balas



Aurel Vlaicu University of Arad, Romania
Academy of Romanian Scientists



December 18, 2025, Bangalore, INDIA



23. Keynote Speaker at the International Conference on Artificial Intelligence in Engineering Systems (ICAIES 2025), 26–27 December 2025, at Rajeev Institute of Technology in Hassan, Karnataka, INDIA.

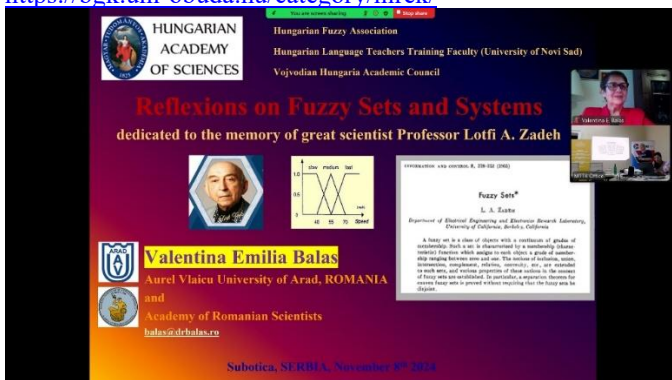
Title: “ *Artificial Intelligence Techniques and Applications in Engineering Systems*”.

<https://icaies.rithassan.ac.in/index.html>



2024

1. Keynote Speakers to 2024 International Symposium on Design Studies and Intelligence Engineering (DSIE2024), December 21-22, 2024, Hangzhou, CHINA, cu prezentarea: "Intelligent Building-Integrated Greenhouses: A Framework for Sustainable Urban Agriculture", <http://www.dsieconf.org/keynotes.htm>
2. Invited Speaker in the program, which is part of the Celebrating Hungarian Science Month series, dedicated to our esteemed mentor, Professor Lotfi Zadeh. The program, held in Subotica, Serbia, was organized by the Hungarian Academy of Sciences, the Hungarian Fuzzy Association, the Hungarian Language Teachers Training Faculty (University of Novi Sad, Serbia), and the Vojvodian Hungarian Academic Council cu prezentarea "Reflexions on Fuzzy Sets and Systems" dedicated to the memory of great scientist Professor Lotfi A. Zadeh. <https://bgk.uni-obuda.hu/category/hirek/>



3. Invited Speakers to the 9th World Conference on Soft Computing (9th WConSC'24), held in Baku, Azerbaijan, on September 25-27, 2024, dedicated to the research heritage of our dear mentor, Professor Lotfi A. Zadeh cu prezentarea: "Intelligent Rooftop Greenhouses as Systems Engineering Subject: Objectives, Models, Control" <https://wconsc.com/2024/pages/invitedSpeakers.html>



4. În perioada 23 – 24 septembrie 2024, a avut loc, la Iași, în format hibrid, cea de a 36-a ediție a Conferinței Științifice Naționale de Toamnă a Academiei Oamenilor de Știință din România (AOSR), cu tematica „Rolul inteligenței artificiale în dezvoltarea durabilă a României”, în organizarea Filialei AOSR Iași, a Universitatii Tehnice “Gheorghe Asachi” din Iași și a Universitatii “Apollonia” din Iași. Am prezentat lucrarea: „*Intelligent Transportation by Constant Time to Collision Criterion*”.

https://www.aosr.ro/wp-content/uploads/2024/09/VOLUM-DE-REZUMATE-toamna-IASI-2024-FINAL-18sept2024.pdf?fbclid=IwY2xjawHxLdJleHRuA2FlbQIxMAABHd9ZIOSnxLMPbZkt8QCrk8whu_U9EQJGaZ_QOVoVvpR9cozblqEjIE7ZOxA_aem_n_5VUB3YXGbtPdytKeEXcQ




5. Speaker at the INTERNATIONAL E-CONFERENCE ON FUZZY SETS & FUZZY LOGIC - GENERALIZATIONS & APPLICATIONS, taking place on September 6-7, 2024. This esteemed conference is organized by the FUZZY AND ROUGH SETS ASSOCIATION (FRSA) based in Tripura, India, and is dedicated to the memory of the pioneering scholar, Professor LOTFI A. ZADEH, whose contributions to the field of fuzzy logic have left an indelible mark on the scientific community. I have presented the lecture: „*Sustainability and Urban Innovation by Fuzzy Applications*”

An
International e- Conference

On

Fuzzy Sets & Fuzzy Logic -
Generalizations & Applications




Z. Pawlak and L. Zadeh
Introducers of Rough sets & Fuzzy Sets


**Sustainability and Urban Innovation by
FUZZY APPLICATIONS**

VALENTINA E. BALAS

September 7, 2024, Agartala, INDIA




"Aurel Vlaicu" University of Arad, Romania,
Academy of Romanian Scientists
e-mail: balas@drbalas.ro



6. Keynote Speaker at the 1st International Conference on Advanced Computing & Emerging Technologies (ACET), „The influence of Moore’s Laws on Evolution of Higher Technical Education” organized by the Department of Computer Science & Engineering, Ajay Kumar Garg Engineering College, Ghaziabad, INDIA, August 23-24, 2024.
<https://acet.akgec.ac.in/guest-speakers>

2024 1st INTERNATIONAL CONFERENCE
ON
ADVANCED COMPUTING & EMERGING TECHNOLOGIES (ACET)
23-24 August, 2024
CONFERENCE MODE: HYBRID
IEEE Conference Record Number: #1888

Organised by
Department of Computer Science & Engineering
Ajay Kumar Garg Engineering College, Ghaziabad, India




Moore's Law describes the exponential growth rate for the number of transistors on integrated circuits (ICs) every two years. This achievement is important in other aspects of technological progress – such as increasing speed and the price of electronic products linked by Moore's Law.


**The Influence of Moore's Laws on
the Evolution of
Higher Technical Education**

Valentina E. Balas

23rd August, 2024, Ghaziabad, INDIA



"Aurel Vlaicu" University of Arad, Romania,
Academy of Romanian Scientists
e-mail: balas@drbalas.ro



7. Speaker at FENG CHIA University, Taichung, TAIWAN, 23 July, 2024 – „Effective Methods for Improving Carbon Offset”



**Effective Methods for Improving
Carbon Offset**

VALENTINA E. BALAS

July 23, 2024, Taichiung, TAIWAN



"Aurel Vlaicu" University of Arad, Romania,
Academy of Romanian Scientists
e-mail: balas@drbalas.ro



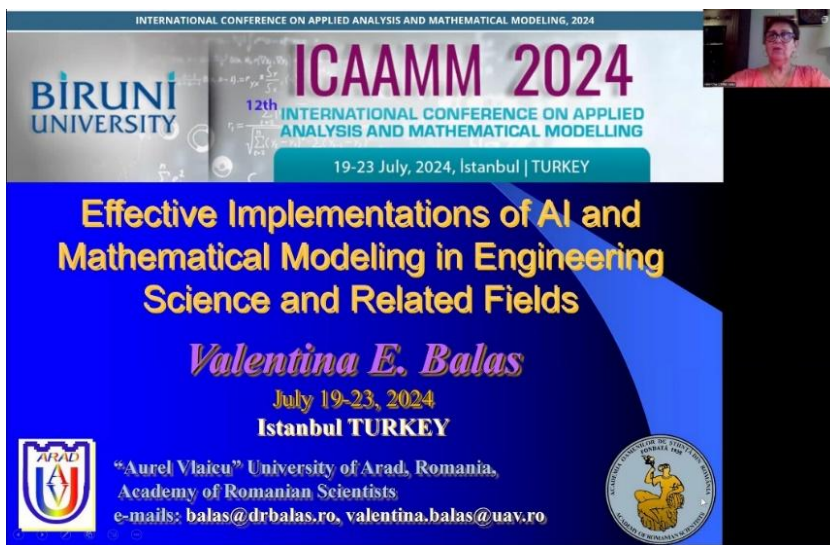
8. Keynote Speaker and Conference Chair – „*Strategies for Enhancing Carbon Offset*” at The 2024 International Conference on Innovative Design and Intelligent Manufacturing (IDIM 2024), July 20-21, 2024, Bali, INDONESIA.

<https://www.idimconf.org/keynotes.htm>



9. Invited Speaker at the 12th International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2024), - „ *Effective Implementations of AI and Mathematical Modeling in Engineering Science and Related Fields*”, July, 19-23, 2024, Istanbul, Turkey.

https://www.ntmsci.com/Conferences/ICAAMM2024/PlenarySpeakers?fbclid=IwY2xjawHxMWxleHRuA2FlbQIxMAABHdRb67wK1y0yZ89Ky3bAq4hXC5pGXFWl62X8OfCxOf_-8M7mYFKn36z-sg_aem_T4Wi8mkC39G5KUHvTgf4fw



10. Séminaire invitée: "*Avancées de la recherche sur les méthodologies et les applications de l'informatique douce*", au Laboratoire d'Automatique, de Mécanique et d'Informatique Industrielles et Humaines (LAMIH) - une unité mixte de recherche entre l'Université Polytechnique Hauts-de-France (UPHF) et le Centre National de la Recherche Scientifique (CNRS), spécialisée dans le transport et la mobilité humaine.

https://www.uphf.fr/lamih/agenda/seminaire-avancees-recherche-sur-methodologies-applications-linformatique-douce?fbclid=IwY2xjawHxMqNleHRuA2FlbQIxMAABHd9ZIOSnxLMPbZkt8QCrk8whu_U9EQJGaZOOVovVpR9cozblqEjIE7ZOxA_aem_n_5VUB3YXGbtPdytKeEXcQ

Advances in Soft Computing Methodologies and Applications
Avancées de la recherche sur les méthodologies et les applications de l'informatique douce
Valentina E. Balas
July 8, 2024, Valenciennes, FRANCE
 "Aurel Vlaicu" University of Arad, Romania,
 Department of Automation and Applied Software
 Academy of Romanian Scientists
 e-mails: balas@drbalas.ro, valentina.balas@uav.ro

11. Keynote Speakers to The 7-th Edition of the International Conference on Space Launching Systems, SLS2024 and The 19-th edition of the International Conference on Artificial Intelligence in the fields of Aerospace, Robotics, Mechatronics, Mechanical Engineering, Manufacturing systems, Power Energy, Technology of Materials, Smart Systems, Human motricities and Neurorehabilitation, „*New Developments in Nano-Architectures Brain-Inspired*”, SLS&OPTIROB 2024 Conference, MAJESTIC Hotel, Jupiter, Romania, 27.06 - 1.07.2024, <https://www.uastro.space/>

SLS&OPTIROB 2024
New Developments in Nano-Architectures Brain-Inspired
Valentina Emilia Balas
Aurel Vlaicu University of Arad, ROMANIA
Academy of Romanian Scientists
June 28, 2024, Jupiter, Romania

12. Keynote Speaker at The 2nd International Conference on Artificial Intelligence and Communication Technology (ICAICT 2024)
 June 21-22, 2024, Shenzhen, CHINA.
 Many thanks to Prof. Srikanta Patnaik and Prof. Lakhmi C. Jain for the invitation!
<http://www.icaictconference.com/2024/menu/speaker>



ICAICT2024
The 2nd International Conference on Artificial Intelligence and Communication Technology
June 21-23, 2024 | Shenzhen, China

Successful Applications of AI in Engineering Science and Related Disciplines
Valentina E. Balas
June 22, 2024
Shenzhen, CHINA



 "Aurel Vlaicu" University of Arad, Romania,
Academy of Romanian Scientists
e-mails: balas@drbalas.ro, valentina.balas@uav.ro



13. Invited speaker at the International Conference on Mathematical Analysis and Applications in Science and Engineering (ICMASC'24), „*Soft Computing Techniques for Modeling and Simulation of Roof-Top Greenhouses*”, Porto, Portugal, from June 20th to June 22nd, 2024.
https://www2.isep.ipp.pt/icmasc/?page_id=242

International Conference on Mathematical Analysis and Applications in Science and Engineering
20 - 22 June 2024, Porto, Portugal

Soft Computing Techniques for Modeling and Simulation of Roof-Top Greenhouses
Valentina Emilia Balas
"Aurel Vlaicu" University of Arad, Romania,
Academy of Romanian Scientists
balas@drbalas.ro

 **21 June 2024 Porto, Portugal** 



CERTIFICATE

WE CERTIFY THAT

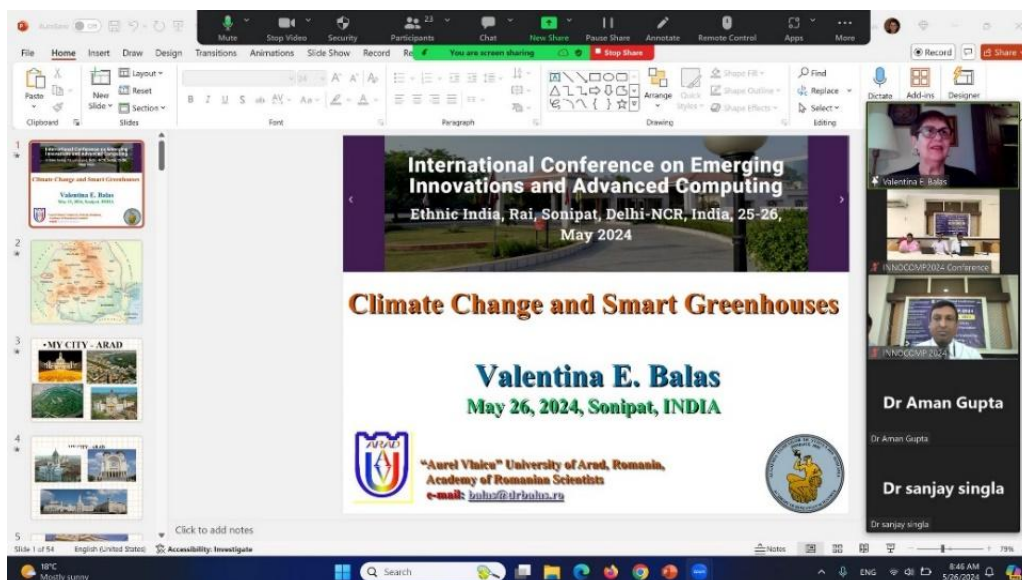
Valentina Balas

has participated and presented
an **INVITED TALK** entitled

at the International Conference on Mathematical
Analysis and Applications in Science and
Engineering-ICMASC24 that took place at the
School of Engineering of the Polytechnic of Porto,
on June 20-22, 2024.

ISEP ISEP FCT FACULTADE DE ENGENHARIA DE PORTO MATHEMATICA SPRINGER NATURE

14. Keynote Speaker at the International Conference on Emerging Innovations and Advanced Computing, „*Climate Change and Smart Greenhouse*” Ethnic India, Rai, Sonipat, Delhi-NCR, INDIA, on 25-26 May, 2024, <https://www.icciacomputing.com/>



15. Conferința Științifică de Primăvară a Academiei Oamenilor de Știință din România AOSR (2024), 25 mai 2024, Universitatea Politehnica Bucuresti, Facultatea de Automatica si Calculatoare.

Secțiunea Stiinta si Tehnologia Informatiei - Moderatori: Prof. Univ. Dr. ing. Dumitru POPESCU - Presedintele Sectiei si Prof. Univ. Dr. ing. Cornel COBIANU, “*Serele de pe acoperis ca subiect al ingineriei sistemelor: obiective, modele, control*” <https://www.aosr.ro/wp-content/uploads/2024/05/VOLUM-DE-REZUMATE-PRIMAVARA-2024-SITE-1.pdf?fbclid=IwY2xjawHxOOlleHRuA2F1bQIxMAABHaVkpI3uJ7B1yfogVaFg3OXqA11Ehq0ofsCsEkQpYu>



ACADEMIA OAMENILOR DE ȘTIINȚĂ DIN ROMÂNIA

CONFERINȚA ȘTIINȚIFICĂ DE PRIMĂVARĂ a AOSR, 2024, BUCUREȘTI
24-25 mai 2024, cu prezență fizică

Serele de pe acoperiș ca subiect al ingineriei sistemelor: obiective, modele, control

1. Prof.dr.ing. **Valentina E. BALAȘ** – Universitatea Aurel Vlaicu din Arad, România și
Membru Asociat la Academia Oamenilor de Știință din România
2. Prof.dr.ing. **Marius M. BALAȘ** - Universitatea Aurel Vlaicu din Arad, România
3. Asistent Drd. **Mihaela POPA** - Universitatea Aurel Vlaicu din Arad, România
4. Asistent Drd. **Daniel ALEXUȚĂ** - Universitatea Aurel Vlaicu din Arad, România

25 Mai, 2024, București, ROMÂNIA



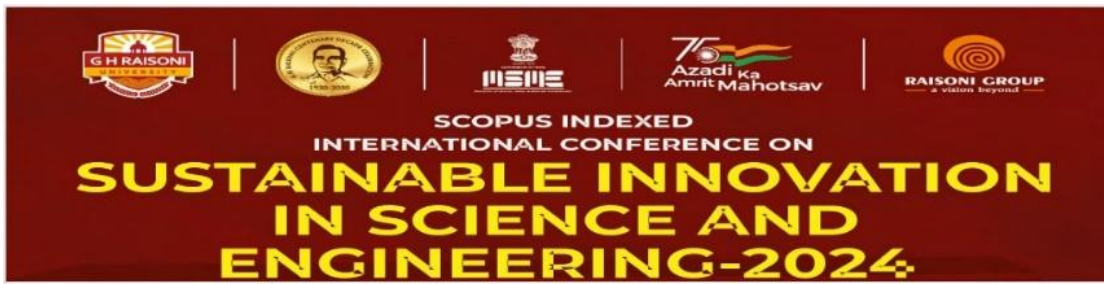
“Aurel Vlaicu” University of Arad, Romania,
Academy of Romanian Scientists
e-mail: balas@drbalas.ro



16. Keynote Speaker at the International Conference on Data and Information Sciences (ICDIS-2024), „New Trends in Control Systems”, held at Raja Balwant Singh Engineering Technical Campus, Bichpuri, Agra, India, on May 24-25, 2024, https://icdis.ssedconferences.in/index.html#our_speakers




17. Invited Speaker at the International Conference on Sustainable Innovation in Science & Engineering, „Increasing the Carbon Offset in the Future Cities” organized by G.H.Raisoni University, 3-4 May, 2024, Saikheda, INDIA.



SCOPUS INDEXED
INTERNATIONAL CONFERENCE ON
**SUSTAINABLE INNOVATION
IN SCIENCE AND
ENGINEERING-2024**

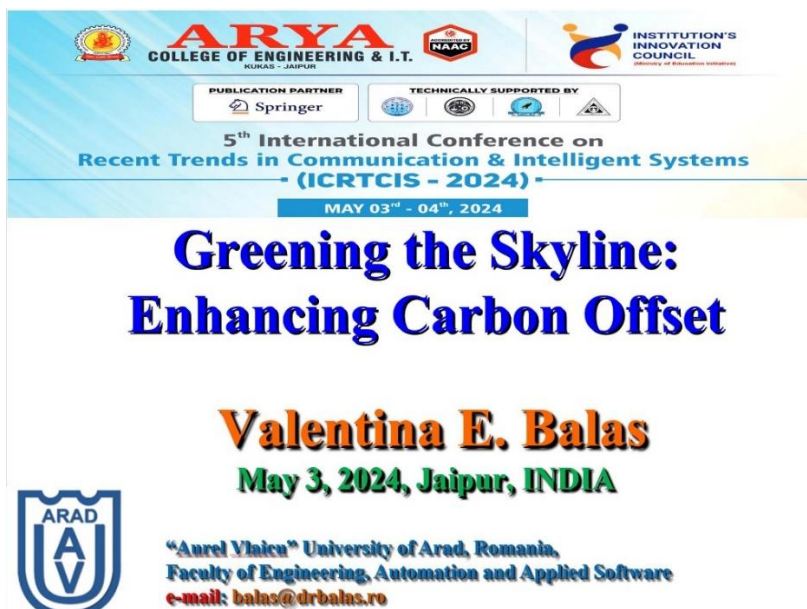
**Increasing the Carbon Offset in
the Future Cities**
Valentina E. Balas

May 4, 2024, Saikheda, INDIA



**“Aurel Vlaicu” University of Arad, Romania,
Faculty of Engineering, Automation and Applied Software
e-mail: balas@drbalas.ro**

18. Speaker at the 5th International Conference on Recent Trends in Communication & Intelligent Systems (ICRTCIS 2024), „ *Greening the Skyline: Enhancing Carbon Offset*”, organized by Arya College of Engineering and Information Technology and hosted by the Department of Electronics & Communication Engineering, 3-4 May, 2024, Jaipur, INDIA. <https://www.icrtcis.in/speakers-and-sessions/>



ARYA COLLEGE OF ENGINEERING & I.T. KURAS - JAIPUR

INSTITUTION'S INNOVATION COUNCIL


PUBLICATION PARTNER: Springer

TECHNICALLY SUPPORTED BY: IEEE, IET, IAS, IACS

5th International Conference on
Recent Trends in Communication & Intelligent Systems
- (ICRTCIS - 2024) -
MAY 03rd - 04th, 2024

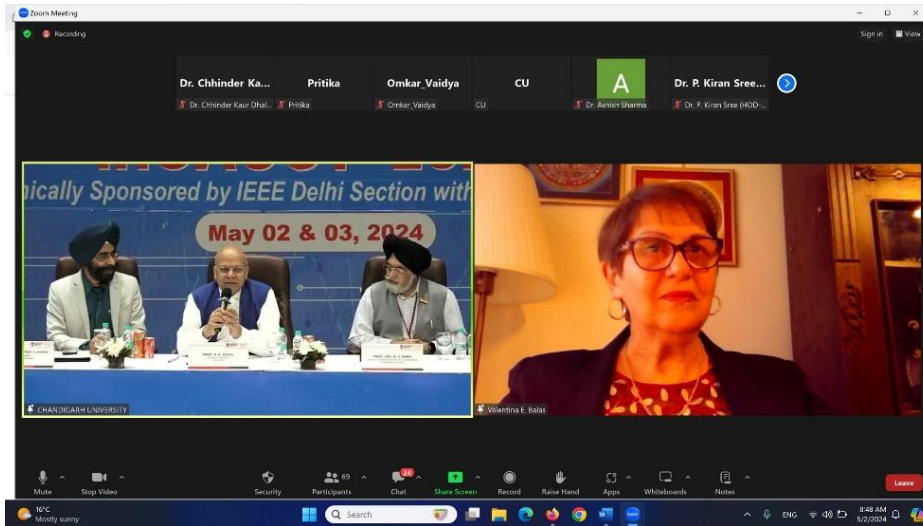
**Greening the Skyline:
Enhancing Carbon Offset**

Valentina E. Balas
May 3, 2024, Jaipur, INDIA



**“Aurel Vlaicu” University of Arad, Romania,
Faculty of Engineering, Automation and Applied Software
e-mail: balas@drbalas.ro**

19. Guest of Honor at the 2nd International Conference on Advancement in Computation & Computer Technologies - InCACCT-2024. The event was organized by the Department of Computer Science and Engineering, Chandigarh University, Punjab and technically sponsored by IEEE Delhi Section, INDIA, on 2-3 May, 2024, <https://incacct-cu.com/>



InCACCT-2024

2ND INTERNATIONAL CONFERENCE ON ADVANCEMENT IN COMPUTATION & COMPUTER TECHNOLOGIES
 TECHNICALLY SPONSORED BY IEEE DELHI SECTION WITH RECORD NO: 61598 XPLORER COMPLIANT: 979-8-3503-7131-4



Prof. (Dr.) Valerina E. Balas, Full Professor at the Faculty of Engineering, "Aurel Vlaicu" University of Arad, Romania, IEEE Senior Member



Dr. Akshi Kumar, Associate Professor & Director Post Graduate Research (PGR), Department of Computing, Goldsmiths, University of London, IEEE Senior Member



Prof. (Dr.) Fao-Ann Hong, Professor, Dept of Computer Science and Info. Engineering, National Chung Cheng University, Taiwan Director, Research Center on AI and Sustainability, CCU, Taiwan IET Fellow, IEEE/ACM Senior Member, ICM Life Member



Prof. (Dr.) Anand Nayyar, Assistant Professor, Computer Scientist, Vice-Chairman (Research)- School of Computer Science, Director- IoT and Intelligent Systems Lab, Duy Tan University, Da Nang, Viet Nam, IEEE Member



Prof. (Dr.) Prema Gau, Director, West Campus, Netaji Subhas University of Technology, Professor, IEEE Senior member



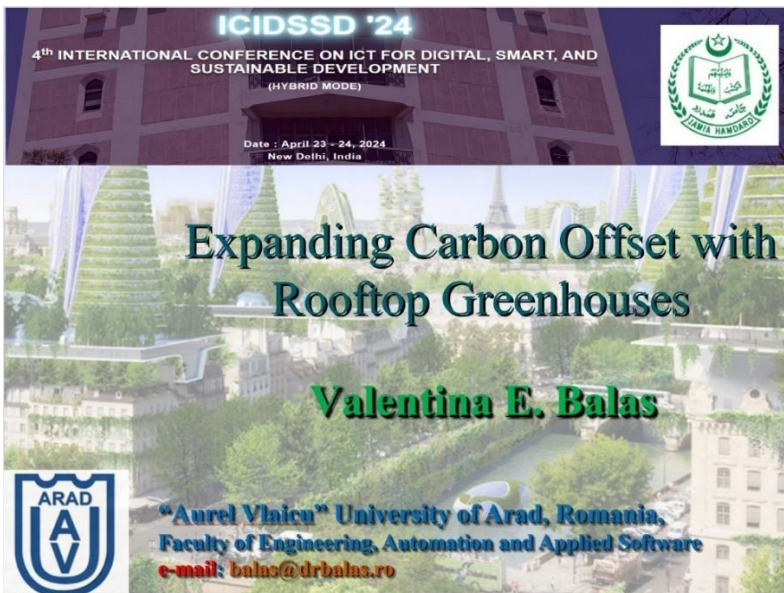
Prof. (Dr.) Tanupriya Choudhury, Symbiosis Institute of Technology, Symbiosis International University, Pune, Maharashtra, India, IEEE Senior Member



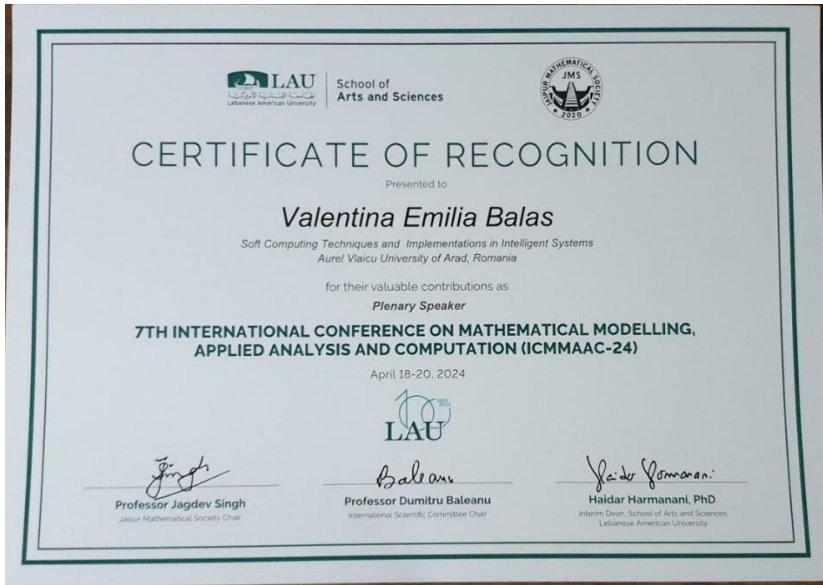
Prof. (Dr.) Sukumar Nandi, Senior Professor, Department of Computer Science & Engineering, Indian Institute of Technology Guwahati, IEEE Senior Member

20. Keynote Speaker to the 4th International Conference on ICT for Digital, Smart, and Sustainable Development Department, „ *Expanding Carbon Offset with Rooftop Greenhouse*”, ICIDSSD '24, organized by the Department of CSE, SEST, Jamia Hamdard, INDIA, April 23- 24, 2024.

<https://www.jamiahamdard.ac.in/icidssd/>



21. Invited Plenary Speaker at the 7th International Conference on Mathematical Modeling, „Soft Computing Techniques and Implementations in Intelligent Systems”, Applied Analysis and Computation, at Lebanese American University, Beirut, Lebanon, April 18-20 2024, ICMMAAC-24.
Organizers: The Lebanese American University, Beirut, LEBANON and Jaipur Mathematical Society, INDIA.
<https://soas.lau.edu.lb/conferences/icmmaac-24/>



22. Speaker and Honorary Chair to the 2nd International Conference on Recent Advances in Computer Science & Information Technology (RACSIT-2024), „*Soft Computing Techniques for Greenhouse Control*, March 05-06, 2024, hosted by the Department of Information Sciences at the University of Education in Lahore, Pakistan.
<https://dv.ue.edu.pk/racsit2024/index.html#>





2nd International Conference on Recent Advances in
Computer Science & Information Technology
(RACSIT-2024)



Vision of Research & Applications
March 05-06, 2024
Department of Information Sciences, DSNT
University of Education, Lahore, Pakistan

Soft Computing Techniques for Greenhouse Control

Valentina Emilia Balas



“Aurel Vlaicu” University of Arad, Romania,
Faculty of Engineering
Automation and Applied Software
e-mail: balas@drbalas.ro

23. Keynote Speaker during the first day of the Two-Week Faculty Development Program on Data Science and Scientific Computing, „Artificial Intelligence and Machine Learning an Introduction to Data Science” organized by: Central University of Punjab, Bathinda, INDIA, Poornima University, Jaipur, INDIA, Nexus University, South Africa, Baba Farid College, Bathinda, INDIA, MathTech Thinking Foundation, Fazilka, Punjab, INDIA, January 03-16, 2024, Bathinda, INDIA

https://www.mttf.in/events/two-week-faculty-development-program-on-data-science-and-scientific-computing/?fbclid=IwY2xjawHxQi1leHRuA2FlbQIxMAABHR8gqyJYh6xbF2IppseE-hHSYhOGSIacUJ53MVKILuGwvIWdwasnXV5_w_aem_jltSFYGORS6PJPrLKxnhSg





Central University of Punjab, Bathinda, India
Poornima University, Jaipur, India
Nexus University, South Africa
Baba Farid College, Bathinda, India
MathTech Thinking Foundation, Fazilka, India
jointly organizes

Two-Week Faculty Development Programme on Data Science and Scientific Computing

03-16 January 2024
11:00 AM-01:00 PM IST

Keynote Address
Artificial Intelligence and Machine
Learning an Introduction to Data Science

Date: 03 January 2024

Help Desk
contactus@mttf.in
+91-896-829-4003
+91-904-134-0179



Prof. Dr. Valentina Emilia Balas
Faculty of Engineering, Department of Automation and Applied
Informatic, “Aurel Vlaicu” University of Arad, Romania

For More Information Visit For Registration: <https://rb.gy/svsqai>
Upcoming Events: www.mttf.in/events

MathTech Thinking Foundation
Shop No-4, Fazilka-Abohar Road Near Bus Stand, Fazilka-152123 (Punjab), INDIA



Certificate of Appreciation

This is to certify that



Prof. (Dr.) Valentina E. Balas
Faculty of Engineering, Department of Automation and Applied Informatic , "Aurel Vlaicu" University of Arad, ROMANIA

is hereby acknowledged and honored for her exemplary contribution as the Keynote Speaker on the topic of "Artificial Intelligence and Machine Learning: An Introduction to Data Science" at the Two-Week Faculty Development Program on Data Science and Scientific Computing. This program is jointly organized by Central University of Punjab, Bathinda, INDIA; Poornima University, Jaipur, INDIA; Nexus University, SOUTH AFRICA; Baba Farid College, Bathinda, INDIA; MathTech Thinking Foundation, Fazilka, Punjab, INDIA.


Dr. Deep Singh
Central University of Punjab
Bathinda, INDIA


Dr. Swati Gokhru
Poornima University
Jaipur, INDIA


Ms. Kgomotso Morotolo
Nexus University
SOUTH AFRICA


Dr. Manish Bansal
Baba Farid College
Bathinda, INDIA


Dr. Mehar Chand
MathTech Thinking Foundation
Fazilka, INDIA



**Two-Week Faculty Development Programme on
Data Science and Scientific Computing**

Artificial Intelligence and Machine Learning an Introduction to Data Science

Prof. Dr. Valentina Emilia Balas

January 3, 2024, Bathinda, INDIA

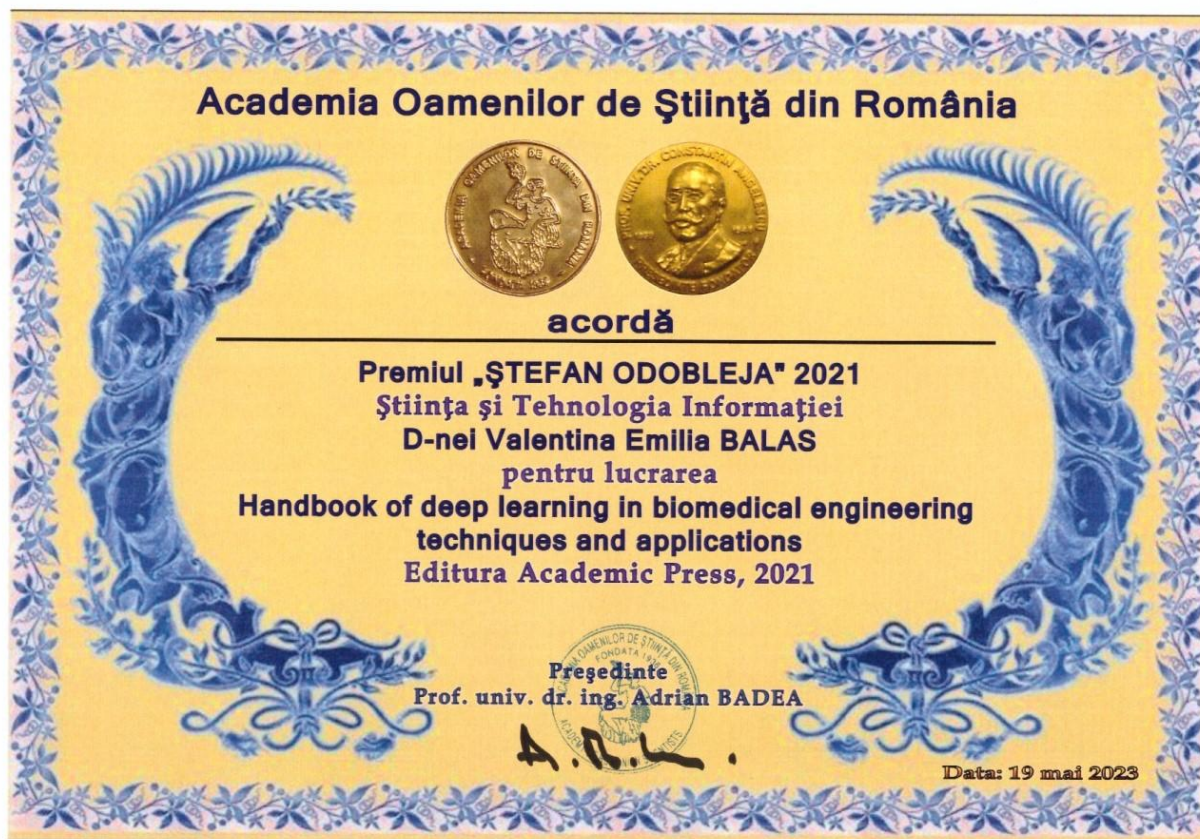


**"Aurel Vlaicu" University of Arad, Romania,
Romanian Academy of Scientists**
e-mails: balas@drbalas.ro, valentina.balas@uav.ro

2019 - Romanian Academy Award: Tudor Tanasescu, Valentina Emilia Balas, (in collective)



Romanian Academy of Scientists - Bucharest - Awards Gala for 2021 - "ȘTEFAN ODOBLEJA" Award and affiliation as AOSR ASSOCIATE MEMBER, Section XII - Information Science and Technology, in May 2023



AGIR Award 2023 for 2022



2022 – "Stefan Odobleja" Award of the Romanian Academy of Scientists



Arad, 30.01.2026

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

Valentina E. Balas