

LIST

of scientific papers and research contracts

A. Doctoral Thesis: “Intelligent Sensors with Internal Model and Fuzzy Techniques,” “Politehnica” University of Timișoara, Scientific Supervisor Prof. Dr. Eng. Mircea Ciugudean, in the field of Electronics and Telecommunications Engineering, defended on 13.06.2004 at “Politehnica” University of Timișoara, PhD Diploma: Series C, No. 0004886/13019 from 22.09.2003, based on the Order of the Minister of Education and Research No. 4741/25.08.2003.

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1. Chiranjibe Jana, Madhumangal Pal, Valentina Emilia Balas, Ronald R. Yager, Picture Fuzzy Logic and Its Applications in Decision Making Problems, Elsevier, 2023, ISBN: 9780443220241, https://shop.elsevier.com/books/picture-fuzzy-logic-and-its-applications-in-decision-making-problems/jana/978-0-443-22024-1
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3. 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/
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6. 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
7. 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
8. 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.
9. 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.
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11.

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A New Single-Phase Direct Frequency Controller Having Reduced Switching Count without Zero-Crossing Detector for Induction Heating System
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A New Single-Phase AC Voltage Converter with Voltage Buck Characteristics for Grid Voltage Compensation
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- 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
 44. Taras Kotyk, Amira S. Ashour, Sayan Chakraborty, Nilanjan Dey and Valentina E. Balas, *Apoptosis Analysis in Classification Paradigm: A Neural Network based Approach*, Healthy World Conference 2015 - A Healthy World for a Happy Life, Kakinada (AP) India 5-7 September 2015, Pag. 17-22, <http://www.hwc.2015.org/share/PapersList%Final%29.zip>
 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 Jaberri, 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
 52. Jagatheesan Kaliannan, Anand B, Santhi V, Nilanjan Dey, Amira S. Ashour and Valentina Emilia Balas, *Dynamic Performance Analysis of AGC of Multi-Area Power System Considering Proportional-Integral-Derivative Controller with Different Cost Functions*, IEEE-ICEEOT-2016 conference which is organizing by DMI College of engineering, Chennai, Tamilnadu during 3rd to 5th March 2016.
 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 \(ICIIS\)](https://doi.org/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)
 54. Valentina E. Bălaș, Marius M. Bălaș. *Traffic Management by Constant Time to Collision*, Ignac Lovrek, Robert J. Howlett and Lakhmi C. Jain (Eds.), Book: *Knowledge-Based Intelligent Information and Engineering Systems*, 12th International Conference, KES 2008, Zagreb, Croatia, September 3-5, 2008, Proceedings, Part III, LNCS 5179/2008, pag. 658–663, 2008, © Springer-Verlag Berlin Heidelberg 2008, ISBN 978-3-540-85566-8, <http://www.springerlink.com/content/54066776m5814356/>, **DPLB (Computer Science Bibliography) indexed, ACM, SCOPUS indexed, (ARC Cat. B).**
 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](https://doi.org/10.1007/978-3-642-14054-8_3_11), 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

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58. D. Balas Timar, V. E. Balas, R. Lile, Rajendra Sinha, *Fuzzy scoring algorithm and long term job performance*, 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, 2016, Timisoara, Romania, Guest Editors: Valentina E. Balas, Lakhmi C. Jain, **Branko Kovačević, Springer Verlag, 2014, AISC, Volume 357, Vol. 2, pag. 925-938, (ARC Cat. C, SCOPUS)**
59. D. Jude Hemanth, Valentina E. Balas and J. Anitha, *Hybrid Neuro-Fuzzy Approaches for Abnormality Detection in Retinal Images*, 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. 295-306, (ARC Cat. C, SCOPUS)**
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)**
62. **Ram Kumar, F. A. Talukdar, Nilanjan Dev, Amira S. Ashour, V. Santhi, Valentina Emilia Balas, Fuqian Shi, Histogram Thresholding in Image Segmentation: A Joint Level Set Method and Lattice Boltzmann Method Based Approach, 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 529-539.**
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 Dev, 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.**

B. Papers Published in Journals and Conference Proceedings with Peer Review (Non-Indexed)

1. Valentina E. Bălaș, Radu Costineanu, Srgian Danity, Valeriu Ille, Cristian Marton, Bela A. Sajgo, Csik Zsolt, *On Watery 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 Electromyographic 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*

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 Throughout the Entire Activity -

NONE

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 International – 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 competitie 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/>
http://www.nits.ac.in/gian/Brochure_Fuzzy_Interpolative_Controller_and_Appln_V_Balas.pdf
4. Proiectul de mobilitati cu codul PN-III-P3-3.1-PM-RO-CN-2018, pozitia 10 din lista 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 Tehnologiilor informationale 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 of National Grants/Projects

Over 25 projects completed at CCSIT Vagoane Arad as a project leader for the electrical/electronic part, projects obtained through competition within the group of companies producing rolling stock.

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 levier (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: ElectroputereCraiova. 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 si 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 si 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, Dispozitia 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 finanțare UEFISCDI - **48/29.11.2016** - Subprogram 1.1 - Resurse Umane - Proiecte de mobilitate pentru cercetatori cu experiența 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 națională.
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.** „Cercetari privind dezvoltarea unor noi metode de fuzionare a cunostiințelor si aplicatii”, 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 Premiara 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**, Cercetari 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 cladirilor 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 cercetatori din diaspora – Prof. Stefan Bratosin, **Director de proiect – Valentina E. Balas**

Member of International Grant/Project Teams

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 Mures
CO: Academia Slovaca de Științe, Bratislava
Directori. Ladislav Hluchý (Slovakia) 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 HFDM Research is led by Dr. Pamela McCaulry 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

Member of National Grant/Project Teams

- 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 acționărilor 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, **Membri 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 celular – 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 \$).

Keynote Speaker

- 1. Keynote Speaker - Challenges in Green Computing Technologies and New AI Regulations** to 2023 3rd International Conference on Electronics, Circuits and Information Engineering (ECIE 2023), 6th to 8th, January 2023, Suzhou, CHINA.



1. **Invited Speaker - Green Computing Challenges** to the 2nd International Conference on Advanced Information Science and Computing Systems, ICAISCS 2023, January 28th, organized by Christ Nagar College, MARANALLOOR, TRIVANDRUM, KERALA, INDIA.

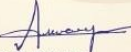



Certificate of Appreciation

This certificate is presented to
Dr VALENTINA E. BALAS

Professor of Automation and Applied Informatics, Aurel Vlaicu University of Arad, Romania
for sharing her valuable knowledge as the Keynote Speaker at the **2nd International
Conference on Advanced Information Science and Computing Systems (ICAISCS)**
organised by the Department of Computer Science & Applications, Christ Nagar College,
Maranalloor, Trivandrum in collaboration with **International Centre for Free and Open
Source Software (ICFOSS)** and **Computer Society of India (CSI)** on 28th of January 2023.


Ms ARATHI CHANDRAN R. I.
Coordinator


Ms AYSWARIYA V. J.
Coordinator


Ms LIBI KURIAN
Head of the Department


Dr JOLLY JACOB
Principal

www.christnagarcollege.com

2. **Keynote Speaker - *Soft Computing Methods for Greenhouse Control*** to the 3rd International Conference on Innovations in Energy Management and Renewable Resources, IEMRE, 2023, on February 17, 2023, organized by Institute of Engineering & Management, Kolkata, INDIA, <https://solarenergy.smartsociety.org/>



3. **Invited Speaker** to The 1st International Conference on Innovating Technologies & Intelligent Systems, on 24.02.2023, organized by the Department of Computer Application & Information Technology, Centre for Vocational Studies of Yogoda Satsanga Mahavidyalaya College, Dhurwa, Ranchi, INDIA. <https://sites.google.com/view/icitis2023/home>
4. **Invited Speaker - *Artificial Intelligence in Applications.The European AI Strategy*** to The Third International Conference on Artificial Intelligence and Signal Processing, organized by the Vellore Institute of Technology, Andhra Pradesh in

Coordination with IEEE Guntur Subsection and Technical Co-sponsorship approved by IEEE Hyderabad section, INDIA, 18 March 2023.

VIT-AP UNIVERSITY
Vijayawada - 522 237, Andhra Pradesh, India

AISP '23: 3rd International Conference on Artificial Intelligence and Signal Processing

IEEE Conference ID: 57993
(Hybrid mode)
Mar 18-20, 2023

Organized by
School of Electronics Engineering
VIT-AP University, India

SPEAKERS

 Arumugam Nallanathan, CEng, FIET, FIEE Professor Head of Communication Systems Research (CSR) Group, School of Electronic Engineering and Computer Science, Queen Mary University of London, UK	 Ljiljana Trajkovic FIEE Professor School of Engineering Science Faculty of Applied Sciences Simon Fraser University	 Chip Hong CHANG Professor, Fellow of IEEE, School of Electrical & Electronic Engineering Nanyang Technological University	 Valentina E. Balas Professor Faculty of Engineering, University of Arad, Romania.	 Kouichi Sakurai Professor National University Corporation Kyushu University	 Dr. Sudhan Hajhi Asso. Professor, Indian Institute of Science, Bangalore	 Dr. Thalmann Daniel Professor at EPFL, Director (MIRLab)
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5. **Invited Speaker - Lotfi Zadeh and his Romanian Friends** to the International scientific seminar dedicated to the scientific legacy of Professor Lotfi Zadeh, organized by the Department of Communication and Organizing Research Centers, UNEC Digital Economy Research Center and the Faculty of Digital Economy and by Shahnaz Shahbazova, professor of the Department of Digital Technologies and Applied Informatics UNEC, March 29, 2023, Baku, AZERBAIJAN.

**PROFESSOR LÜTFİ ZADƏNİN
ELMİ İRSİNƏ HƏSR OLUNMUŞ
BEYNƏLXALQ ELMİ SEMİNAR**

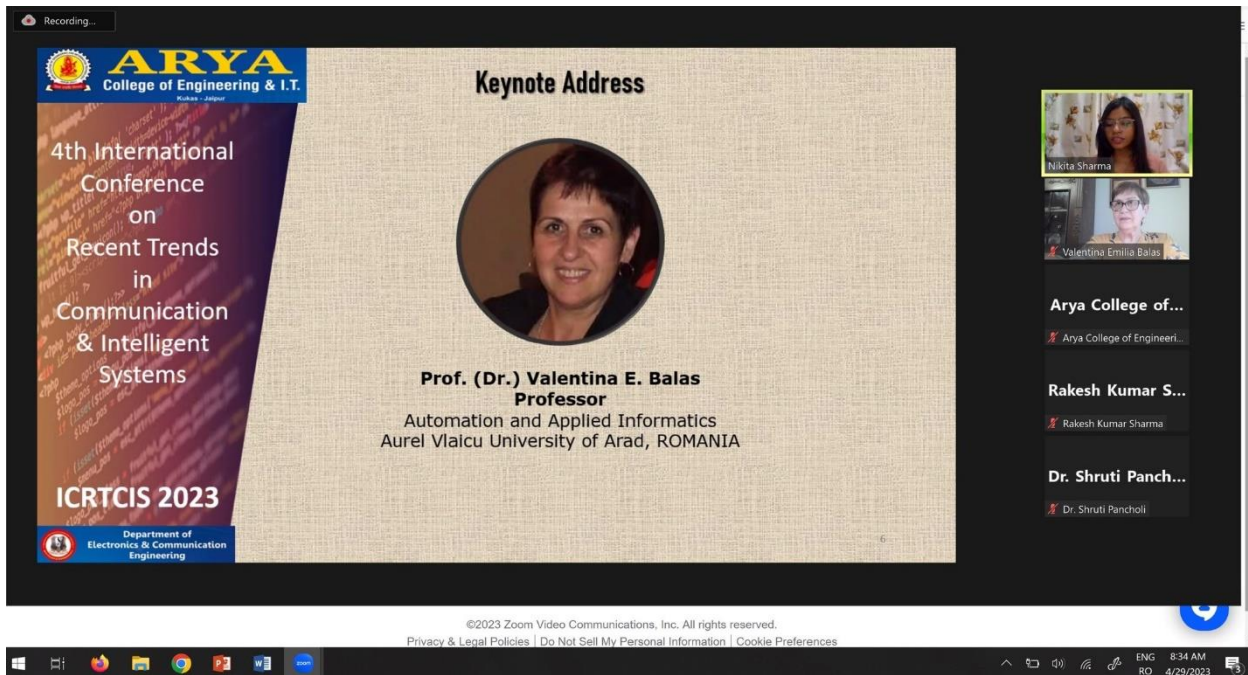
28 MART 2023
11.00 – 13.00

 prof. Şahnaz Şahbazova UNEC RİTİ kafedrası, Azərbaycan	 prof. Janusz Kacprzyk Systemların Tədqiqatı İnstitutu, Polska	 prof. Oskar Kastilyo Tijuana Texnologiyalar İnstitutu, Meksika
 prof. Vadim Stefanuyuk Rusiya Elmlər Akademiyası, Rusiya	 prof. Valentina Emilia Balas Aurel Vlaicu Universiteti, Rumıniya	 prof. Marius M. Balas Aurel Vlaicu Universiteti, Rumıniya

Baku, M. Mustafayev - 194
(UNEC, III tədris binası)

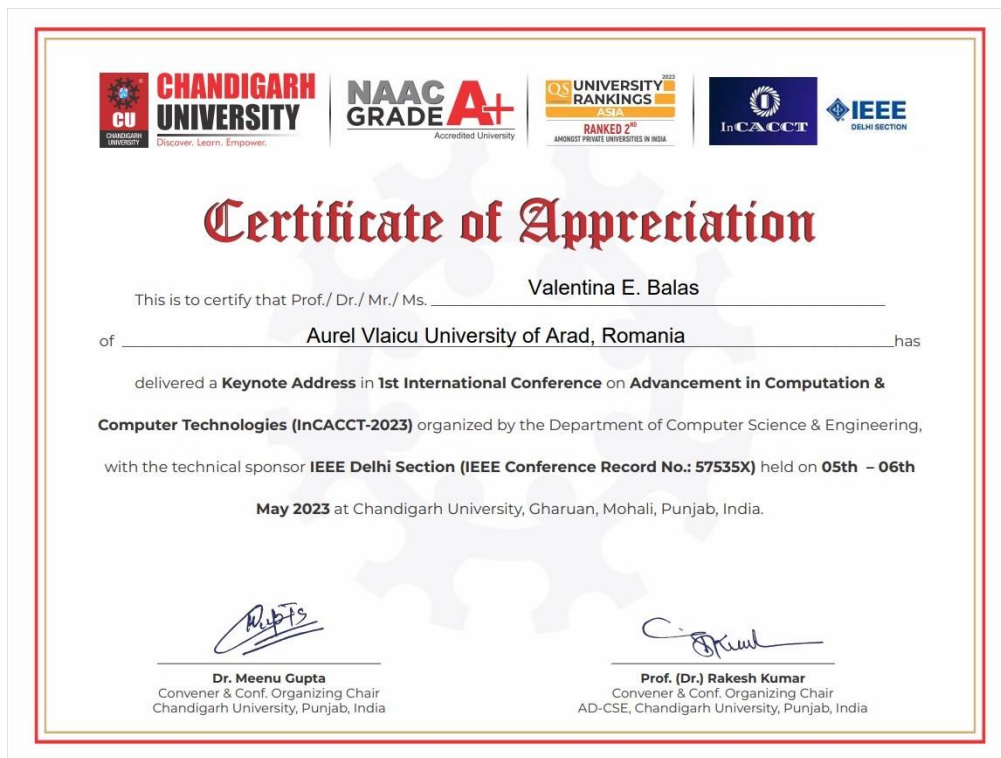
zoom.us/j/95406097852 (214436)
hibrid / hybrid

6. **Invited Speaker - Recent Trends in Intelligent Systems** to The 4th International Conference on Recent Trends in Communication & Intelligent Systems (ICRTCIS 2023), organized by Arya College of Engineering and Information Technology and hosted by the Department of Electronics & Communication Engineering, 29 April 2023, Jaipur, INDIA, 29 April 2023, <https://www.icrtcis.in/speakers-and-sessions/>



7. **Keynote Speaker and Publication Chair - *Computational Intelligence Paradigms in Switching Techniques*** to the The second IEEE-International Conference on Computational Intelligence and Sustainable Engineering (CISES-2023), 29 April, 2023, organized by G.L. Bajaj Institute of Technology & Management Greater Noida, U.P. INDIA, <https://www.glbitm.org/cises2023/Keynote-Speakers.html>

8. **Guest of Honor and Invited Speaker - *Next Generation Computing Paradigms*** to International Conference on Advancement in Computation & Computer Technologies + InCACCT-2023 organized by Department of Computer Science and Engineering, with the technical sponsors IEEE Delhi Section, 05th – 06th May 2023 at Chandigarh University, Campus – Gharuan, Mohali, Punjab, INDIA.



9. **Keynote Speaker - *Optimal Traffic Control*** to 2023 3rd International Conference on Robotics and Control Engineering (RobCE 2023) organized by Southeast University, , supported by Hong Kong Society of Mechanical Engineers (HKSME), media supported by MDPI-Robotics, Nanjing, May 12-14, 2023, CHINA, <https://www.robce.org/>

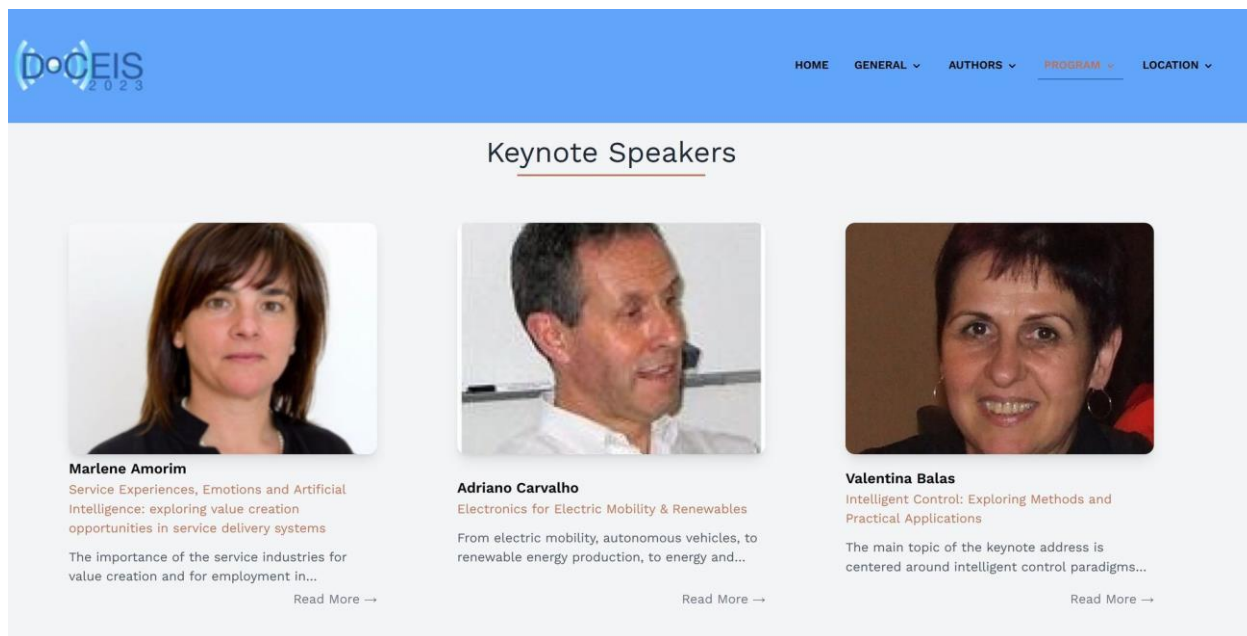


10. **Invited Speaker - *Intelligent Control Design and Practical Applications***.to 2023 2nd International Conference on Innovations and Development of Information Technologies and Robotics (IDITR 2023), co-organized by University of Electronic Science and Technology of China and Hong Kong Society of Mechanical Engineers (HKSME), technical sponsored by IEEE Chengdu Section and York University media supported by Journal of Electronics & Information Technology, May 27, 2023, Chengdu, CHINA



- Keynote Speakers - *Advanced Soft Computing Methods. Design and Practical Applications*** to the 6-th edition of the International Conference on Space Launching Systems- SLS 2023 and 18-th edition of the International Conference on Artificial Intelligence in the fields of Aerospace, Astronautics, Robotics, Mechanical Engineering, Manufacturing Systems, New Technology of Materials, Non Conventional Energy, Human motricities and Neurorehabilitation- OPTIROB 2023, 29 june - 3 July 2023, Jupiter, Hotel Majestic, Romania, <https://www.uastro.space/keynore-speakers>

12. Keynote Speaker - *Intelligent Control. Exploring Methods and Practical Applications* to 14th Advanced Doctoral Conference on Computing, Electrical and Industrial Systems, 5-7 July, 2023, Caparica, Portugal, The Advanced Doctoral Conference on Computing, Electrical and Industrial Systems is celebrating its 14th edition (DoCEIS 2023) with a focus on Technological Innovation for Connected Cyber Physical Spaces, <https://doceis.dee.fct.unl.pt/>



The screenshot shows the website for DoCEIS 2023. The header includes the logo and navigation links: HOME, GENERAL, AUTHORS, PROGRAM, and LOCATION. The main content area is titled "Keynote Speakers" and features three speaker profiles:

- Marlene Amorim**: Service Experiences, Emotions and Artificial Intelligence: exploring value creation opportunities in service delivery systems. The importance of the service industries for value creation and for employment in... [Read More →](#)
- Adriano Carvalho**: Electronics for Electric Mobility & Renewables. From electric mobility, autonomous vehicles, to renewable energy production, to energy and... [Read More →](#)
- Valentina Balas**: Intelligent Control: Exploring Methods and Practical Applications. The main topic of the keynote address is centered around intelligent control paradigms... [Read More →](#)

13. Invited Speaker - *Introduction to Research Perspective. Definitions and Objectives of Research* to 7-Days workshop on Research Methodology for Engineering, dated 24th - 30th July, 2023, organized by Shoolini University and IEEE SU Student Branch, Himachal Pradesh, INDIA, <https://shooliniuniversity.com/media/research-methodology/index.html?fbclid=IwAR2o5HaagVMJmEFSfusXz7pjP2fIKNRXhky9b-5cIH8rYiCwJNGD8BD6KFw>



Association of Indian Universities and
Shoolini University



CERTIFICATE OF APPRECIATION

This Certificate is proudly presented to

Prof. Valentina E. Balas

Aurel Vlaicu University of Arad, Romania

For addressing a session in **7 Days workshop on
Research Methodology**, held from 24th - 30th July
2023 in Shoolini University, Himachal Pradesh, India.

Anitya Gupta

Mr. Anitya Gupta
(CHAIR, IEEE STUDENT BRANCH)

Dr. Pankaj Mitta
SECRETARY GENERAL AUI

14. **Invited Speaker – Adaptive Fuzzy Systems** at the IEEE co-sponsored event of 20th International Bhurban Congress of Applied Sciences and Technology (IBCAST-2023), August 22-25, 2023, Bhurban, Murree Hills, Pakistan.

<https://www.ibcast.org.pk/>



15. Resources Persons- *Computational Intelligence. Techniques and Practical Applications* for A TWO-WEEK Online International Workshop on EMERGING TRENDS IN ELECTRICAL ENGINEERING, Sponsored by Siddhartha Academy of General & Technical Education, organized by Department of Electrical & Electronics Engineering Prasad V. Potluri Siddhartha Institute of Technology (Autonomous), Kakinada, Kanuru, Vijayawada, INDIA, 14th August 2023 – 26th August,
www.pvpsiddhartha.ac.in

RESOURCE PERSONS	WORKSHOP VISION	ABOUT THE INSTITUTE
<p>Dr. Valentina Emilia Balas, Professor <i>Department of Automation and Applied Informatics Head of the Department of International Relations University of Arad, Romania.</i></p> <p>Dr. Marius M. Balas, Habilitated Professor <i>University of Arad, Romania</i></p> <p>Dr. Ammanamanchi Venkata Jaya Sai Praneeth, Senior Engineer <i>BorgWarner Inc., Hautcharage, Luxembourg.</i></p> <p>Dr. Vijay K. Sood, Professor <i>Department of Electrical, Computer and Software Engineering Ontario Tech University, Oshawa.</i></p> <p>Dr. K. Siva Kumar, Professor <i>Indian Institute of Technology, Hyderabad</i></p> <p>Dr. Y. Pradeep Kumar, Associate Professor <i>Indian Institute of Technology, Hyderabad.</i></p> <p>Dr. Naeem M. S. Hannon, Professor <i>University Technology Mara, Malaysia</i></p>	<p>Prasad V. Potluri Siddhartha Institute of Technology firmly believes in upskilling the flagbearers of academics and research by regularly organizing workshops and faculty development programmes with international collaborations and experts.</p> <p>ABOUT WORKSHOP</p> <p>This programme has been designed to train and develop the faculties/research scholars to conduct the research across many areas within the field of electrical engineering, such as Electrical Vehicle, Various Control techniques incorporated with the industrial drives and the power system operation and control. In addition to that automation and artificial intelligence are also focused on this workshop.</p> <p>Contact us</p> <p>M. Hemanth Sai, <i>Assistant Professor Prasad V Potluri Siddhartha Inst. of Tech. hemanthsai.madupu@pvpsiddhartha.ac.in Mobile: +91 9052176170</i></p> <p>B. Bala Saibabu, <i>Assistant Professor Prasad V Potluri Siddhartha Inst. of Tech. saibabu.dec31@pvpsiddhartha.ac.in Mobile: +91 9966496635</i></p>	<p>ABOUT THE INSTITUTE</p> <p>Prasad V. Potluri Siddhartha Institute of Technology is one of the 18 Institutions sponsored by Siddhartha Academy of General and Technical Education. The institution is established in the year 1998 with a strong mission of quality technical education through continuous non-compromising interactive teaching. It is permanently affiliated to Jawaharlal Nehru Technological University, Kakinada. Andhra Pradesh, India. As a result of its concentrated efforts to attain quality, it is conferred Autonomous status in 2012. The college is certified by ISO 9001:2015, accredited by National Assessment and Accreditation Council with A+ grade and all eligible UG programs are accredited by NBA. The Railway Station, Bus Stand and Airport are at a distance of 10 KM each from college.</p> <p>ABOUT THE DEPARTMENT</p> <p>The department of Electrical and Electronics Engineering has been established in the year of 2001. The department is reaccredited by the National Board of Accreditation in 2019. The department consists of 2 professors, 4 Associate Professors, 16 Assistant Professors. The department organized various programs such as skill development, hands on sessions and technical workshops to strengthen the overall development of the students and faculty.</p>

16. **Keynote Speaker - *Advanced Research in Soft Computing*** to The International Symposium on Design Studies and Intelligence Engineering (DSIE2023), October 28-29, Hangzhou, CHINA, <http://www.dsieconf.org/>

2023
International Symposium on Design Studies
and Intelligence Engineering

October 28th

Welcome Speaker



Lakshmi C. Jain
Founder, KES International,



Chunhui Chai
Zhejiang University, China



Xuguang Zhu
Zhejiang Sci-Tech University,
China

Keynote Speaker



Valentina E. Balas
Aurel Vlaicu University of Arad,
Romania



Ronghuan Pan
Kookmin University, Korea



Kusrulni Mohd Salleh
University Sains Malaysia, Malaysia



Kejun Zhang
Zhejiang University, China



Xiaodong Wang
Xiamen University of Technology,
China



Baoxi Xing
Zhejiang University of Technology,
China

18. **Chief Guest and Keynote Speaker - Moore's Law in Higher Education** to the 1st International Conference on Artificial Intelligence, Advanced Materials, and Mechatronics Systems (AIAMMS-2023), November 3-4, 2023, Organised by: School of Engineering and Technology, JECRC University, Jaipur, INDIA.
https://conference.jecrcuniversity.edu.in/aiamms23/index.html?fbclid=IwAR3e8zq5yTZL3L5nURbSODcn3-pO4sVYEzoCCf4OwWyAQd_akONSdjtKPRY,

JECRC UNIVERSITY
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AIAMMS
AIAMMS/1001

1st International Conference on
Artificial Intelligence, Advanced Materials, & Mechatronics Systems

AIAMMS-2023 3-4 November 2023

Organized by
 School of Engineering & Technology, JECRC University, Jaipur

CERTIFICATE OF APPRECIATION

This certificate is awarded to **Prof. Valentina Emilia Balas**,
Department of Automation and Applied Informatics, Faculty of
Engineering, Aurel Vlaicu University of Arad, Romania For her
 contribution as a **Keynote Speaker** in "AIAMMS-2023".

Prof. (Dr.) Ajay
 Conference Chair & Convenor

Prof. (Dr.) Naveen Hemrajani
 General Chair

Prof. Victor Gambhir
 President, JECRC University

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19. **Keynote Speaker - *Current and Future Trends in Soft Computing and Applications*** to The International Conference on Advances in Computation, Communication and Information Technology ICAICCIT - 2023, organized by Manav Rachna International Institute of Research and Studies (MRIIRS), November 23-24, 2023, Faridabad, INDIA, <https://aiccit2023.vercel.app/>,



20. **Guest of Honour - *Computing Paradigms and Practical Applications*** at 1st DMIHER(DU) International Conference on "Artificial Intelligence in Education and Industry 4.0" (IDICAIEI), 27th - 28th, November 2023, organized by Faculty of Engineering and Technology [FEAT] Datta Meghe Institute of Higher Education and Research (Deemed to be University), Sawangi (Meghe), Wardha, Maharashtra, INDIA. *Soft* <https://dmiher.edu.in/IICAIEI/>




IEEE Conference ID - 58380

▼▲▼ INVITATION ▲▼▼

Your gracious presence is solicited at the Inauguration Ceremony of

1st DMIHER(DU) International Conference on
"ARTIFICIAL INTELLIGENCE IN
EDUCATION & INDUSTRY 4.0"
(IDICAIEI 2023)

MONDAY
NOVEMBER 27, 2023

AT 9:00 AM

Venue: Datta Meghe Auditorium, DMIHER (DU)
 Sawangi (Meghe), Wardha

Chief Guest

Hon. Dr. Surendra Pal
 Ex. Eminent Scientist ISRO and Elected
 for IEEE AP-S ADCOM

Presided Over by

Hon. Dr. Vedprakash Mishra
 Pro-Chancellor &
 Chief Advisor, DMIHER (DU)

Guests of Honour

Hon. Dr. Omprakash Kakde
 Director, IIT Nagpur

Hon. Dr. P. M. Padole
 Director, VNIT Nagpur

Hon. Dr. Valentina Emilia Balas
 Department of Automation and Applied
 Informatics Aurel Vlaicu University of Arad.
 IEEE Technical Member IDICAIEI

Hon. Dr. Anil Kumar Saini
 President, IETE HQ, New Delhi

Hon. Dr. Anand S. Gharpure
 Chairman, IEEE Bombay Section

In August presence of

Hon. Shri. Sagar Meghe
 Principal Advisor, DMIHER (DU)

Hon. Dr. Lalitbushan Waghmare
 Vice-Chancellor DMIHER (DU)

Hon. Dr. Gaurav Mishra
 Pro-Vice-Chancellor DMIHER (DU)

Hon. Dr. Sweta Kale Pisulkar
 Registrar DMIHER (DU)

Hon. Dr. Rajiv Borle
 Director General DMIHER (DU)

Hon. Dr. S. S. Patel
 Chief Coordinator DMIHER (DU)

Hon. Dr. Tripti Waghmare
 Executive Director, (Academic Excellence),
 DMIHER (DU)

Hon. Dr. Zahiruddin Quazi
 Executive Director (R&D), DMIHER (DU)

Hon. Dr. Sandeep Srivastava
 Executive Director (Global), DMIHER (DU)

Dr Abhyuday Meghe
 OSD, AVBRH, Wardha

RSVP

Prof. (Dr.) K.T.V.Reddy
 Conference Chair, IDICAIEI

Organizing Secretary, IDICAIEI

Dr. Utkarsha Pacharaney 9820791995
Dr. Prateek Verma 7417796557
Mr. Gaurav Shrivastav 8527859577
Dr. Swapnil Gundewar 9834293650
Mr. Chetan Puri 9975281500
Mr. Palash Gourshettiwar 9420063262
Mr. Amit Gudadhe 9423369018
Dr. Rajendra Rewatkar 9923399409

21. **Keynote Speaker - Recent Trends in Control Systems**, at the "10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics, and Computer Engineering" (UPCON-2023), December 1st to 3rd, 2023, Amity University Greater Noida, INDIA,
<https://amity.edu/upcon2023/>



10th IEEE UP SECTION INTERNATIONAL CONFERENCE

ON

**ELECTRICAL, ELECTRONICS AND COMPUTER
ENGINEERING (UPCON-2023)**

1st – 3rd December, 2023

Certificate of Acknowledgement

We acknowledge the participation of **Dr. Valentina Emilia Balas** from **Aurel Vlaicu, University of Arad, Romania** as **Keynote Speaker** during 10th IEEE UP Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2023) held during 1st - 3rd December, 2023.

A handwritten signature in blue ink, appearing to read 'Ajay Rana'.

Prof. (Dr.) Ajay Rana
General Chair, UPCON-2023
Director General, AUUP, Greater Noida

A handwritten signature in blue ink, appearing to read 'S. Singh'.

Dr. Satish K. Singh
General Chair, UPCON-2023
Chair, IEEE UP Section

22. **Keynote Speaker - Empowering Industrial Control: Soft Computing Paradigms and Practical Applications** to the 14th Conference on Data Analysis Methods for Software Systems, November 30 - December 2, 2023, Druskininkai, LITHUANIA, https://www.mii.lt/damss/damss_2023_final_program.pdf (mii.lt)



Event Schedule Friday, December 1

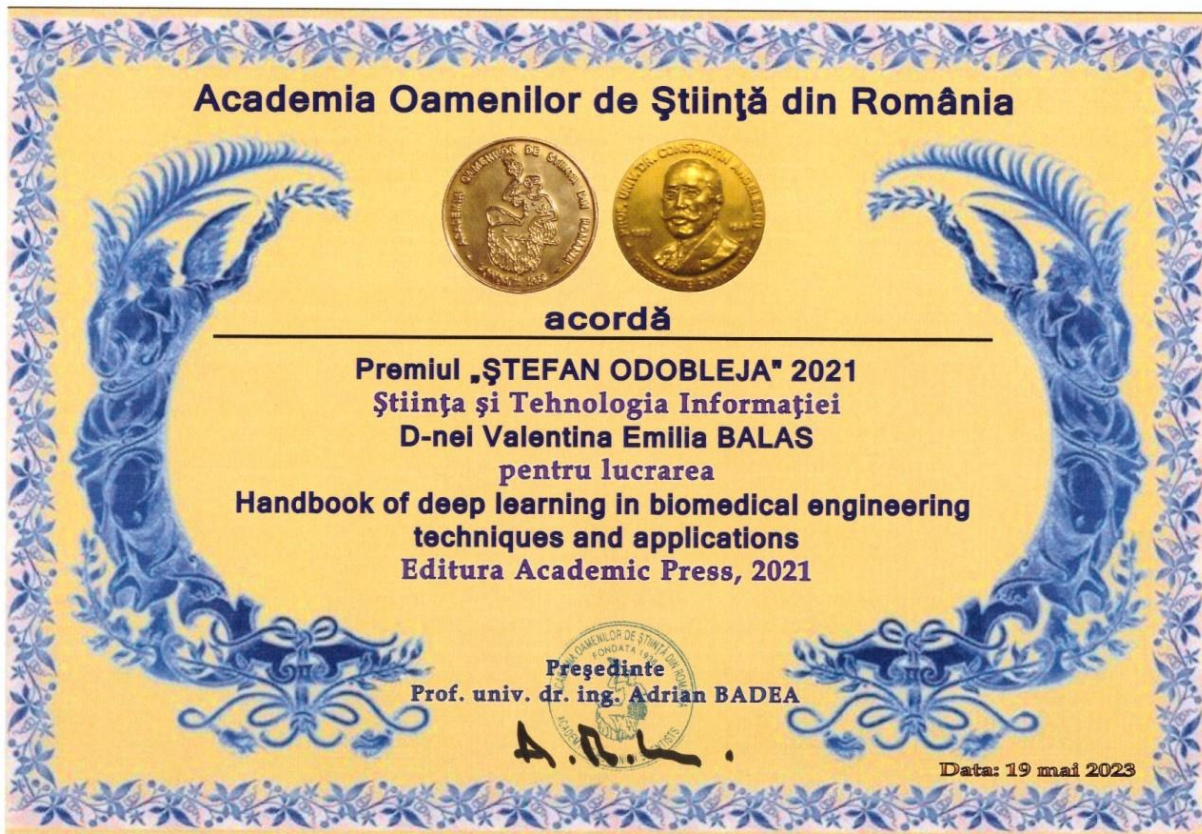
9⁰⁰–10⁰⁰	Plenary Session (Room A)
<p><i>Alfred Bruckstein</i> “An Overview of Holographic Data Representations” (Technion Israel Institute of Technology, Israel)</p> <p><i>Valentina E. Balas</i> “Empowering Industrial Control: Soft Computing Paradigms and Practical Applications” (Aurel Vlaicu University of Arad, Romania)</p>	
10⁰⁰–11⁰⁰	Oral Session (Room A)
<ol style="list-style-type: none"> 1. <i>Stefano Bonnini</i> “Nonparametric Tests on the Adequacy of Models for Count Data” (University of Ferrara, Italy) 2. <i>Jurgita Markevičiūtė, Zenonas Norkus</i> “Regional GDP Disparities in the Interwar Lithuania” (Vilnius University) 3. <i>Rokas Puišys, Jonas Šiaulys</i> “Survival With Random Effect” (Vilnius University) 	
10⁰⁰–11⁰⁰	Oral Session (Room C)
<ol style="list-style-type: none"> 1. <i>Olga Karelkina</i> “Loop Decomposition-Based Integer Programming Model for RNA Secondary Structure Prediction” (Systems Research Institute of the Polish Academy of Sciences, Poland) 2. <i>Marco Marcozzi, Ernestas Filatovas, Remigijus Paulavičius</i> “Cluster-Based Classification of Consensus Protocols for Decentralized Ledger Technology” (Vilnius University) 3. <i>Jan W. Owsiniński</i> “Back to the Roots: on the Use and Principles of Clustering under Various Circumstances” (Systems Research Institute of the Polish Academy of Sciences, Poland) 	

Awards

2019 - Romanian Academy Award: Tudor Tănăsescu, Valentina Emilia Balas as part of the team



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





Arad, 24.09.2024

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

