

Raport de cercetare
Centrul de Cercetare Sisteme Inteligente
Perioada ianuarie-decembrie 2023

a) Articole stiintifice

-WOS (ISI)

Nr. crt.	Autori	Titlul articolului	Revista	Volumul/ Numărul	Pag
1	Sanjiban Sekhar Roy, Ching-Hsien Hsu, Akash Samaran, Ranjan Goyal, Arindam Pande and Valentina E. Balas	Vessels Segmentation in Angiograms Using Convolutional Neural Network: A Deep Learning Based Approach, IF=2,4; Q2	CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES	Volume 136, Issue 1	241-255
2	Claudia ABINEZA, Valentina E. BALAS , Philibert NSENGIYUMVA	Deep Learning Model for Early Subsequent COPD Exacerbation Prediction, IF=1,6; Q4	<i>Studies in Informatics and Control</i>	vol. 32(3)	99-107
3	Podder T, Bhattacharya D, Majumder P, Balas VE.	A feature boosted deep learning method for automatic facial expression recognition, IF=3,8; Q2	<i>PeerJ Computer Science</i>	Number 9, article e1216	1-19
4	SA Jose, R Raja, BI Omede, RP Agarwal, J Alzabut, J Cao, VE Balas	Mathematical modeling on coinfection: transmission dynamics of Zika virus and Dengue fever, IF=5,6; Q1	Nonlinear Dynamics	Volume 111, Issue 5	4879-4914
5	SA Jose, R Ramachandran, D Baleanu, HS Panigoro, J Alzabut, VE Balas	Computational dynamics of a fractional order substance addictions transfer model with Atangana-Baleanu-Caputo derivative, IF=2,9; Q1	Mathematical Methods in the Applied Sciences	Volume 46, Issue 5	5060-5085

-WOS Proceedings

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-BDI

Nr. crt.	Autori	Titlul articolului	Revista	Volumul/ Numărul	Pag
1	<u>Wei Liu, Jierong Liu, Tao Peng, Guojun Wang, Valentina Emilia Balas, Oana Geman & Hung-Wen Chiu</u>	Prediction of Parkinson's disease based on artificial neural networks using speech datasets	<i>J Ambient Intell Human Comput</i>	Vol. 14	13571–13584
2	Kumar, C., Pattnaik, D., Balas, V. E. , & Raman, R.	Comprehensive Scientometric Analysis and Longitudinal SDG Mapping of Quality and Reliability Engineering	<i>Journal of Scientometric Research</i>	Vol 12, Issue 3	558–569

-alte tipuri de publicatii

1	Kolla BHANU PRAKASH, Valentina EMILIA BALAS	Detecting Parkinson's disease using a stacked long short-term memory deep neural network with feature fusion	<i>Annals Series on Science and Technology of Information</i> ISSN online 2066 - 8562	Vol. 16 no 1-2 / 2023 DOI 10.56082/annalsarsciinfo.2023.1-2.46	46-68
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b) Comunicari cu rezumate publicate la conferinte/simpozioane stiintifice:**- Internationale**

Nr. crt.	Autori	Titlul articolului	Conferinta	Volumul/ Numărul	Pag.
1	Gampa SR, Jasthi K, Alapati S, Gudey SK, Balas VE.	Fuzzy genetic algorithm based antilock braking system	Proceedings of the International Conference on Artificial Intelligence Techniques for Electrical Engineering Systems (AITEES 2022), 8/5/2022, India. Springer Nature; 2023	Series: Atlantis Highlights in Intelligent Systems , ISBN 10.2991/978-94-6463-074-9_3	13-22
2	Sondra Preascilla Ioana Văcărescu, Nicolae Paraschiv, Valentina Emilia Balas	AUTOMATED DECISION SUPPORT SYSTEMS USING ARTIFICIAL INTELLIGENCE IN QUALITY ENGINEERING WITHIN THE AUTOMOTIVE INDUSTRY	XIII International Conference on Industrial Engineering and Environmental Protection IIZS 2023 October 5-6, 2023, Zrenjanin, Serbia	XIII International Conference - Industrial Engineering and Environmental Protection (IIZS 2023) Proceedings	Pag. 461-467

				ISBN 978-86-7672-368-3 http://www.tfzr.uns.ac.rs/iizs/files/IIZS%202023%20Proceedings%20Final.pdf	
3	Daniel Alexuta, Marius M. Balas	THE STUDY OF WATER PARAMETERS IN AN AQUAPONIC SYSTEM	XIII International Conference on Industrial Engineering and Environmental Protection IIZS 2023 October 5-6, 2023, Zrenjanin, Serbia http://www.tfzr.uns.ac.rs/iizs/index.php	XIII International Conference - Industrial Engineering and Environmental Protection (IIZS 2023) Proceedings ISBN 978-86-7672-368-3 http://www.tfzr.uns.ac.rs/iizs/files/IIZS%202023%20Proceedings%20Final.pdf	Pag. 468-474

- Nationale

1. **Marius M. Balas** si **Valentina E. Balas**, *Moore's laws and Their Implications in Higher Technical Education*, CONFERINȚA NAȚIONALĂ ȘTIINȚIFICĂ DE TOAMNĂ a AOSR 2023, "Știința pentru o societate sănătoasă", 21 – 23 septembrie 2023 CONSTANȚA, Secțiunea Știința și Tehnologia Informației, volum Rezumate lucrarea 12, pag. 81, ISSN 2601 - 5102

<https://www.aosr.ro/wp-content/uploads/2023/09/F-VOLUM-DE-REZUMATE-toamna-2023-Editura-AOSR.pdf>

2. **Valentina E. Balas**, **Marius M. Balas**, Hiroshi Nakajima, Takahiro Yamanoi, *Professor Michio Sugeno's contributions to Control Science*, CONFERINȚA NAȚIONALĂ ȘTIINȚIFICĂ DE TOAMNĂ a AOSR 2023, "Știința pentru o societate sănătoasă", 21 – 23 septembrie 2023 CONSTANȚA, Secțiunea Știința și Tehnologia Informației, volum Rezumate lucrarea 13, pag. 82, ISSN 2601 - 5102

<https://www.aosr.ro/wp-content/uploads/2023/09/F-VOLUM-DE-REZUMATE-toamna-2023-Editura-AOSR.pdf>

- Studentesti

- Conferinta Internationala studenteasca, editia a 25-a, de la UAV, Arad 7-8 iunie, 2023

<https://cdn.uav.ro/documente-inginerie/Manifestari-Studentesti/Program-Sesiunea-studenti-XXV-2023.pdf>

Nr.crt.	Numele si prenumele	Anul	Titlul	Coordonatori
1	Palaghiu Eduard Eugen	An IV AIA	SIMULAREA SI ANALIZAREA UNEI LINII AUTOMATIZATE DE PRODUCTIE	Prof.univ.dr.habil.ing. Valentina Balas

2	Cristea Razvan Catalin	An IV AIA	LINIE AUTOMATA DE FABRICATIE PCB	Prof.univ.dr.habil.ing. Valentina Balas
3	Mircea A. Lucaciu	An IV AIA	BOTTLE FILLING ASSEMBLY	Prof.univ.dr.habil.ing. Valentina Balas
4	Gavrila Tania Bogdana	drd	MATHEMATICAL MODELING AND SYSTEMATIC CONTROL OF ARTIFICIAL PANCREAS BASED ON FRACTIONAL ORDER TECHNIQUES	Prof.univ.dr.habil.ing. Valentina E. Balas
5	Alexuta Daniel	drd	SIMULATION OF DISSOLVED OXYGEN IN AN AQUAPONIC SYSTEM FOR 25 HOURS IN MATLAB	Prof.univ.dr.habil.ing. Valentina E. Balas
6	Popa Mihaela	drd	INTELLIGENT ROOFTOP GREENHOUSES	Prof.univ.dr.habil.ing. Valentina Balas
7	Rohatinovici Noemi	drd	HAMAK NETWORKS AND APPLICATIONS	Prof.univ.dr.habil.ing. Valentina Balas

- Simpozionul Internațional "Brainstorming în Agora Cercurilor Studentești", BACStud2021, Ediția a IX-a, 12-14 octombrie 2023, Universitatea Agora din Municipiul Oradea, Băile Felix, Băile 1 Mai, <https://www.univagora.ro/conferinte/bacstud/bacstud-2023/>

Nr.crt.	Numele si prenumele	Anul	Titlul	Coordonatori
1	Alexuta Daniel	drd	Aquaponics, pH, and Other Parameters in Aquaponics: A Comprehensive Exploration	Prof.univ.dr.habil.ing. Valentina Balas si Prof.univ.dr.habil.ing. Marius Balas

- Alte tipuri de comunicari

c) Brevete de inventie, inovatie:

- Internationale

- Nationale:

d) Carte/Capitol de carte publicate sau trimise spre publicare in edituri:

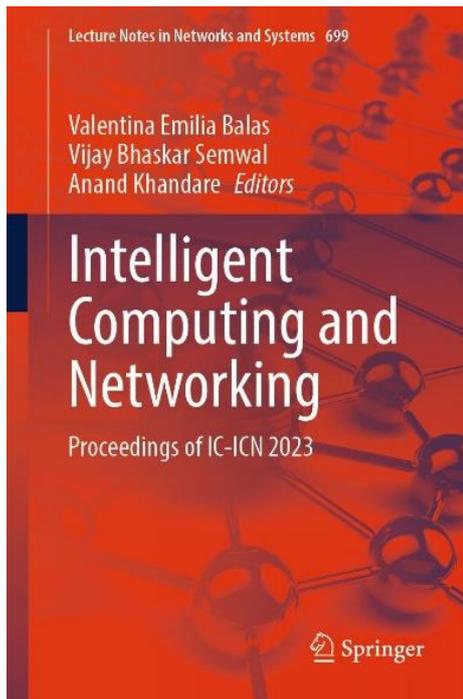
- Internationale

Nr. crt.	Autor/Autori	Titlul cărții	Titlul capitolului	Editura
1	Chiranjibe Jana, Madhumangal Pal, Valentina E. Balas, Ronald R. Yager	Picture Fuzzy Logic and Its Applications in Decision Making Problems	320 pag.	Elsevier

2	V. Tharakeswari, M. Kameswari, P. Mariappan, Yegnanarayanan Venkataraman & Valentina E. Balas	Fuzzy Optimization, Decision-making and Operations Research, Theory and Applications	Role of Hexagonal Fuzzy Numbers While Applying the Max-Min Concept to a Transportation Problem 14 pag	Springer
3	Hermehar Pal Singh Bedi, Valentina E. Balas , Sukhpreet Kaur, Rubal Jeet	Blockchain and Deep Learning for Smart Healthcare	Blockchain Technology: Concepts and Applications 34 pag.	Wiley

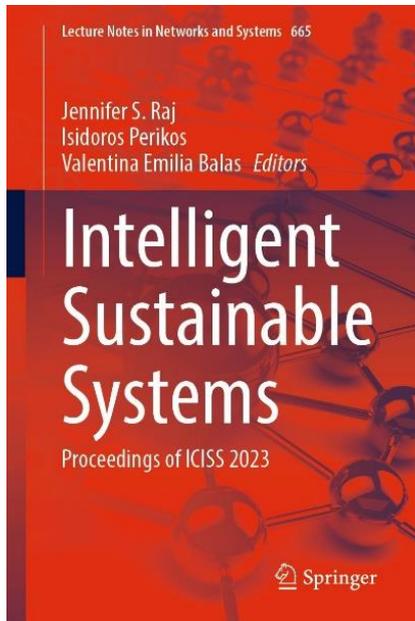
- Nationale
- Alte tipuri de publicatii

1. Editors: [Valentina Emilia Balas](#), [Vijay Bhaskar Semwal](#), [Anand Khandare](#), Intelligent Computing and Networking, Proceedings of IC-ICN 2023, Springer 2023, DOI <https://doi.org/10.1007/978-981-99-3177-4>, ISBN 978-981-99-3176-7, 562 pag. <https://link.springer.com/book/10.1007/978-981-99-3177-4>

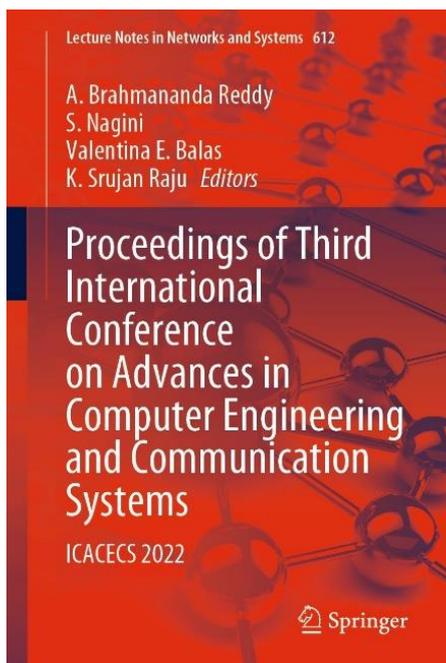


2. [Jennifer S. Raj](#), [Isidoros Perikos](#), [Valentina Emilia Balas](#), *Intelligent Sustainable Systems*, Proceedings of ICISS 2023, in *Lecture Notes in Networks and Systems* (LNNS, volume 665), <https://doi.org/10.1007/978-981-99-1726-6>, ISBN Softcover ISBN 978-981-99-1725-9, 868 pag.

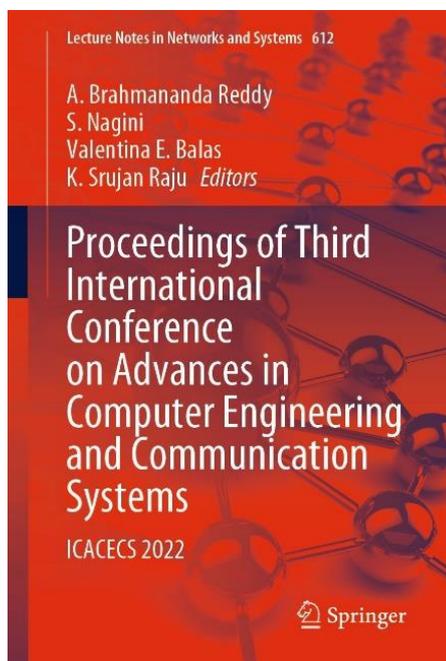
<https://link.springer.com/book/10.1007/978-981-99-1726-6>



3. Editors: [A. Brahmananda Reddy](#), [S. Nagini](#), [Valentina E. Balas](#), [K. Srujan Raju](#), Proceedings of Third International Conference on Advances in Computer Engineering and Communication Systems: ICACECS 2022, Springer Verlag, Singapore, DOI <https://doi.org/10.1007/978-981-19-9228-5>, Softcover ISBN978-981-19-9227-8, 699 pag.
<https://link.springer.com/book/10.1007/978-981-19-9228-5>



4. Editors: [A. Brahmananda Reddy](#), [S. Nagini](#), [Valentina E. Balas](#), [K. Srujan Raju](#), Proceedings of Third International Conference on Advances in Computer Engineering and Communication Systems: ICACECS 2022, Series Title [Lecture Notes in Networks and Systems](#) , DOI <https://doi.org/10.1007/978-981-19-9228-5>, Publisher Springer Singapore, Softcover ISBN 978-981-19-9227-8, <https://link.springer.com/book/10.1007/978-981-19-9228-5>



5. Editors: Zeashan Hameed Khan, **Valentina E. Balas**, PROCEEDINGS OF SPIE International Conference on Electronic Information Engineering and Data Processing (EIEDP 2023), 17–19 March 2023 Nanchang, China, Volume 12700, ISBN: 9781510666160, SPIE Digital Library, ISBN: 9781510666160, 926 pag. <https://spie.org/Publications/Proceedings/Volume/12700#> = <https://www.proceedings.com/spie12700.html>

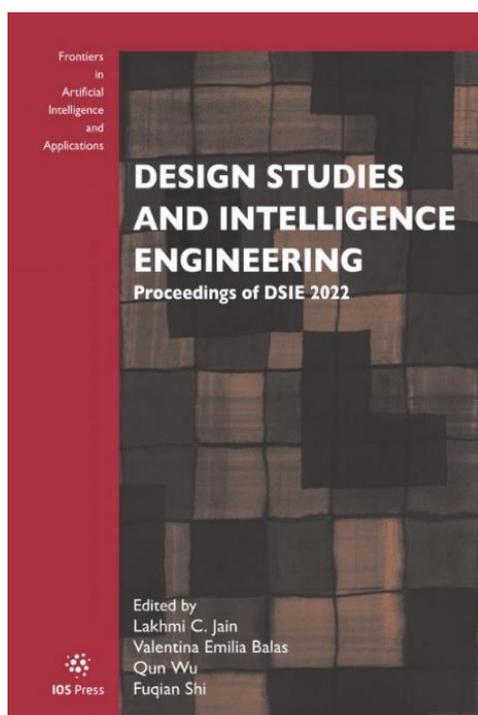


Front Matter: Volume 12700

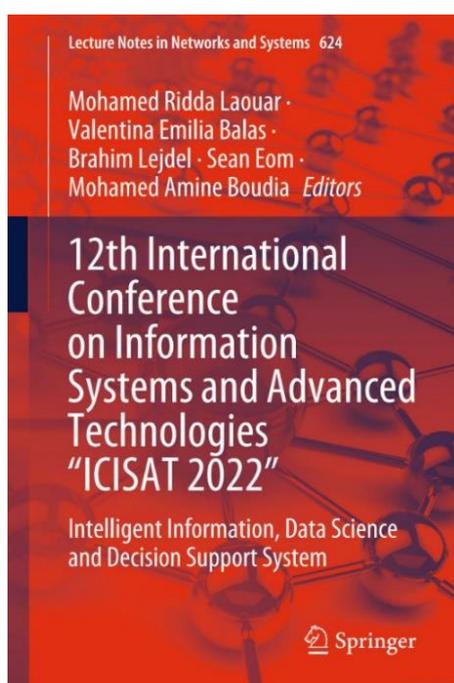
"Front Matter: Volume 12700," Proc. SPIE 12700, International Conference on Electronic Information Engineering and Data Processing (EIEDP 2023), 1270001 (26 May 2023); doi: 10.1117/1.2686441
SPIE. Event: International Conference on Electronic Information Engineering and Data Processing (EIEDP 2023), 2023, Nanchang, China

6. Editors: LC Jain, VE Balas, Q Wu, Design Studies and Intelligence Engineering: Proceedings of DSIE 2022, Volume 365 of [Frontiers in Artificial](#)

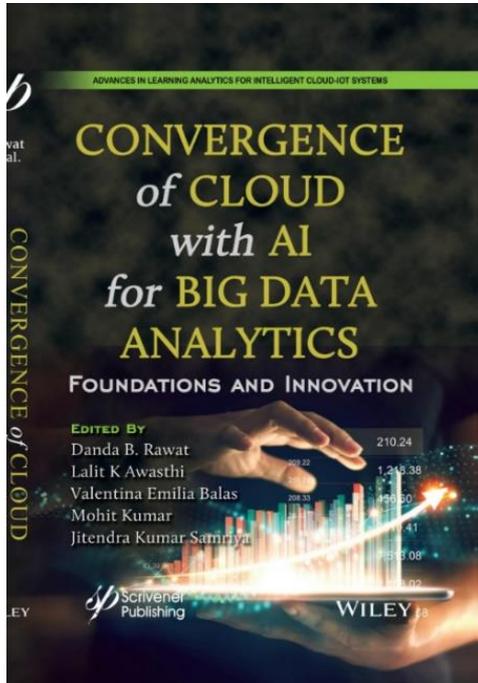
[Intelligence and Applications](#), pages 666, ISBN print 978-1-64368-372-0, ISBN online 978-1-64368-373-7, IOS Press, 2023
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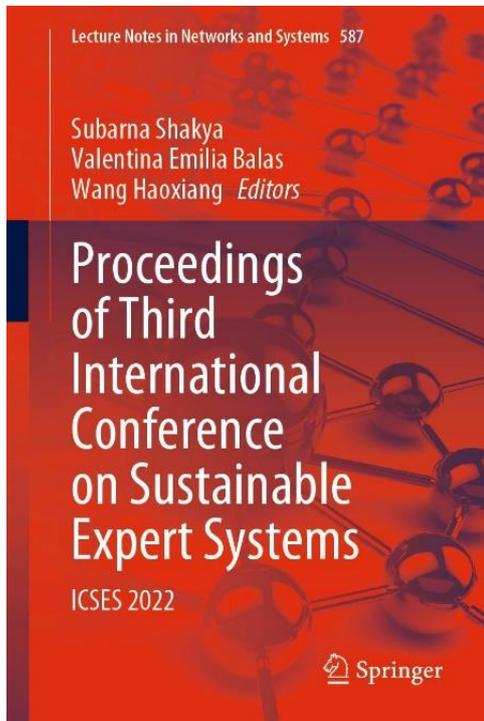
7. Editors: Mohamed Ridda Laouar, **Valentina Emilia Balas**, Brahim Lejdel, Sean Eom, Mohamed Amine Boudia, 12th International Conference on Information Systems and Advanced Technologies "ICISAT 2022": Intelligent Information, Data Science and Decision Support System, Volume 624, Publisher Springer Nature, DOI <https://doi.org/10.1007/978-3-031-25344-7>, Softcover ISBN978-3-031-25343-0, eBook ISBN978-3-031-25344-7, Series ISSN 2367-3370, Series E-ISSN 2367-3389, Pages 577
<https://link.springer.com/book/10.1007/978-3-031-25344-7>



8. Editors: Danda B. Rawat, Lalit K Awasthi, **Valentina Emilia Balas**, Mohit Kumar, Jitendra Kumar Samriya, [Convergence of Cloud with AI for Big Data Analytics: Foundations and Innovation](#), John Wiley & Sons, Print ISBN:9781119904885, Online ISBN:9781119905233, |DOI:10.1002/9781119905233, 425 pag.
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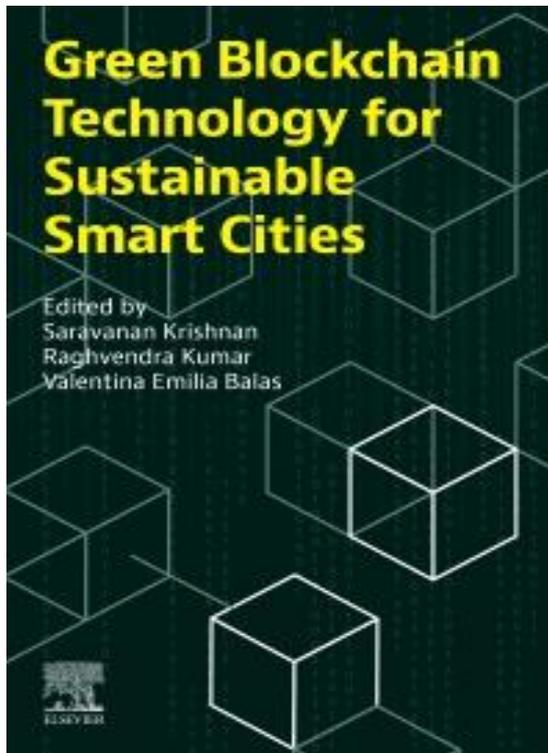
9. Editors: Subarna Shakya, **Valentina Emilia Balas**, Wang Haoxiang, [Proceedings of Third International Conference on Sustainable Expert Systems: ICSES 2022](#), Series Title [Lecture Notes in Networks and Systems](#), DOI <https://doi.org/10.1007/978-981-19-7874-6> , Softcover ISBN978-981-19-7873-9, eBook ISBN978-981-19-7874-6, Series ISSN 2367-3370, Series E-ISSN 2367-3389, Pages 1050, Springer Nature, <https://link.springer.com/book/10.1007/978-981-19-7874-6>



10. Editors: [Rajesh Kumar Dhanaraj](#), [Santhiya Murugesan](#), [Balamurugan Balusamy](#), [Valentina E. Balas](#), Digital Twin Technologies for Healthcare 4.0, Pages: 228, ISBN-13: 978-1-83953-579-6, IET, <https://shop.theiet.org/digital-twin-technologies-for-healthcare-4-0>



11. Editors: Saravanan Krishnan, Raghvendra Kumar, **Valentina Emilia Balas**, Green Blockchain Technology for Sustainable Smart Cities, ISBN: 9780323954075, eBook ISBN: 9780323954068, 414 pag, Elsevier 2023, <https://shop.elsevier.com/books/green-blockchain-technology-for-sustainable-smart-cities/krishnan/978-0-323-95407-5>

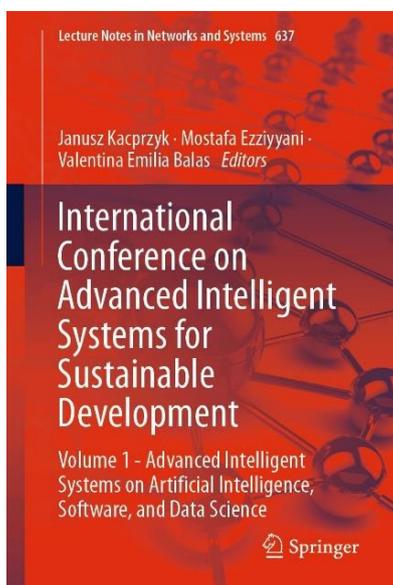


12. Editors: Saikumar Tara, Krikanth Gimmadi, **Valentina E. Balas**, Anil Kumar Vuppula, [INTERNATIONAL CONFERENCE ON ADVANCES IN SIGNAL PROCESSING COMMUNICATIONS AND COMPUTATIONAL INTELLIGENCE \[electronic resource\] /](#), ISBN: 9780735445239, 0735445230, Electronic book, Volume 2477, AIP Publishing, 2023, <https://printorders.aip.org/2477>

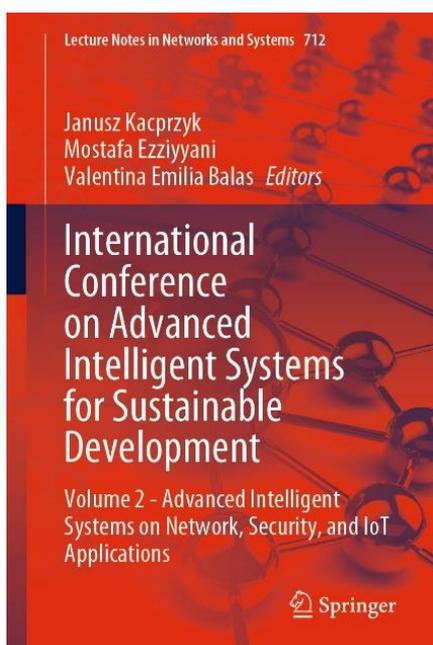


13. Editors: [Janusz Kacprzyk](#), [Mostafa Ezziyyani](#), [Valentina Emilia Balas](#), International Conference on Advanced Intelligent Systems for Sustainable Development, Volume 1 - Advanced Intelligent Systems on Artificial Intelligence, Software, and Data Science,

Series Title [Lecture Notes in Networks and Systems](#), Volume 637, DOI <https://doi.org/10.1007/978-3-031-26384-2> , Softcover ISBN978-3-031-26383-5, eBook ISBN978-3-031-26384-2, Series ISSN 2367-3370, Series E-ISSN 2367-3389, Number of Pages: 970, Springer Nature, 2023
<https://link.springer.com/book/10.1007/978-3-031-26384-2#about-this-book>

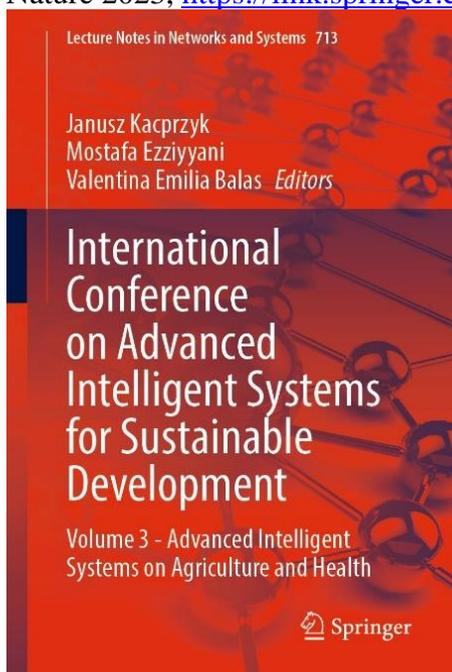


14. Editors: [Janusz Kacprzyk](#), [Mostafa Ezziyyani](#), [Valentina Emilia Balas](#), International Conference on Advanced Intelligent Systems for Sustainable Development: Volume 2 - Advanced Intelligent Systems on Network, Security, and IoT Applications, Series Title [Lecture Notes in Networks and Systems](#), Volume 712, DOI <https://doi.org/10.1007/978-3-031-35251-5> , • Softcover ISBN978-3-031-35250-8, eBook ISBN978-3-031-35251-5, Series ISSN 2367-3370, Series E-ISSN 2367-3389, Number of Pages: 434, Springer Nature, 2023,
<https://link.springer.com/book/10.1007/978-3-031-35251-5>

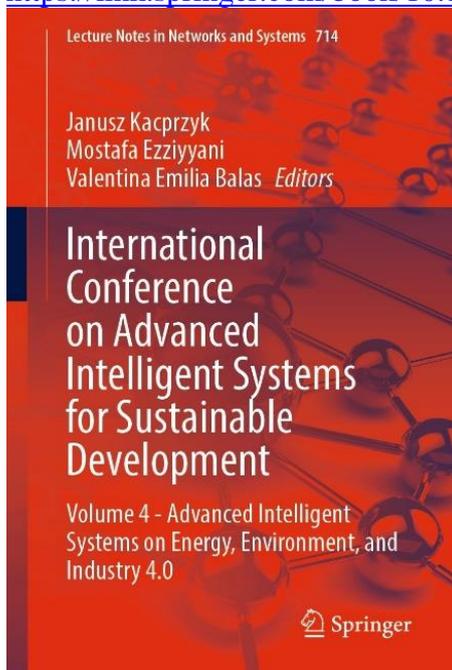


15. Editors: [Janusz Kacprzyk](#), [Mostafa Ezziyyani](#), [Valentina Emilia Balas](#), International Conference on Advanced Intelligent Systems for Sustainable Development: Volume 3-Advanced Intelligent Systems on Agriculture and Health, Series Title: [Lecture Notes](#)

in *Networks and Systems*, Volume 713, DOI <https://doi.org/10.1007/978-3-031-35248-5>, Softcover ISBN978-3-031-35247-8, eBook ISBN978-3-031-35248-5, Series ISSN 2367-3370, Series E-ISSN 2367-3389, Number of Pages: 858, Springer Nature 2023, <https://link.springer.com/book/10.1007/978-3-031-35248-5>

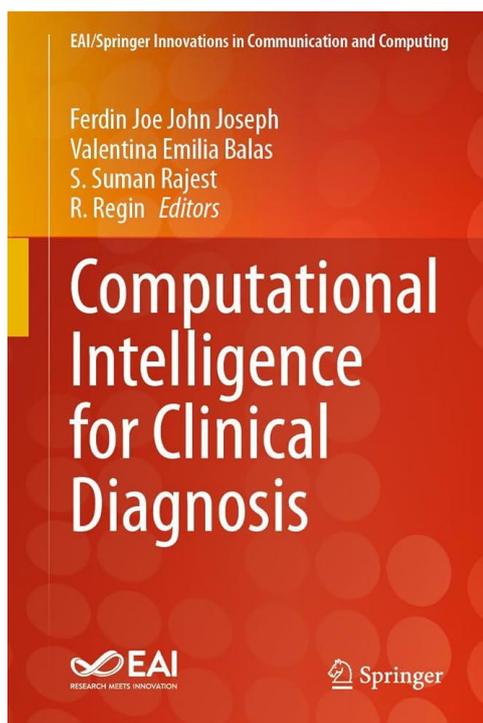


16. Editors: [Janusz Kacprzyk](#), [Mostafa Ezziyyani](#), [Valentina Emilia Balas](#), International Conference on Advanced Intelligent Systems for Sustainable Development: Volume 4 - - Advanced Intelligent Systems on Energy, Environment, and Industry 4.0, Series Title [Lecture Notes in Networks and Systems](#), Volume 714, DOI <https://doi.org/10.1007/978-3-031-35245-4>, Softcover ISBN 978-3-031-35244-7, eBook ISBN 978-3-031-35245-4, Series ISSN 2367-3370, Series E-ISSN 2367-3389, Number of Pages: 563, Springer Nature 2023, <https://link.springer.com/book/10.1007/978-3-031-35245-4>



17. Editors: Ferdin Joe John Joseph, **Valentina Emilia Balas**, S. Suman Rajest, R. Regin, Computational intelligence for clinical diagnosis, book series: [EAI/Springer Innovations in Communication and Computing](#) (EAIISCC), DOI <https://doi.org/10.1007/978-3-031-23683-9>, Hardcover ISBN 978-3-031-23682-2,

Softcover ISBN 978-3-031-23685-3, eBook ISBN 978-3-031-23683-9, Series ISSN 2522-8595, Series E-ISSN 2522-8609, Number of Pages: 592, Springer Nature 2023
<https://link.springer.com/book/10.1007/978-3-031-23683-9>

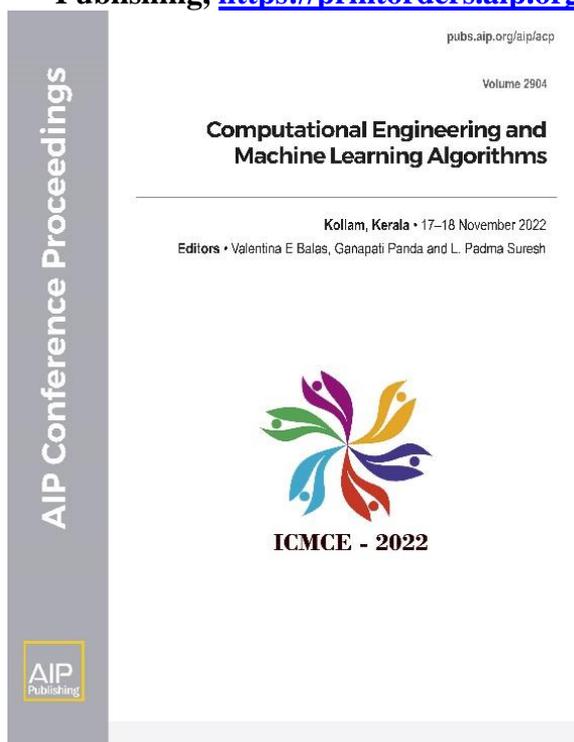


18. Editors: V. D. Ambeth Kumar, Joel J. P. C. Rodrigues, S. Malathi, Valentina Emilia Balas, and Fadi Al-Turjman, Volume 2790: 5th International Conference on Intelligent Computing, March 25–26 2022, Chennai, India, ISBN: 9780735446113, Pages 936, AIP Publishing, <https://printorders.aip.org/proceedings/2790>

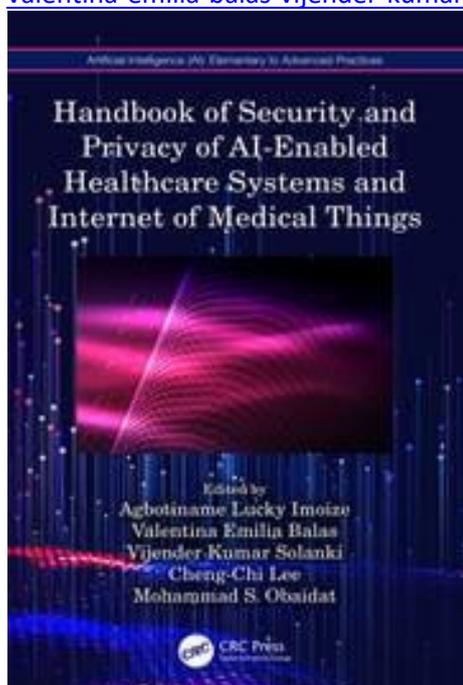


19. Editors: Valentina E Balas, Ganapati Panda, and L. Padma Suresh, Volume 2904: Computational Engineering and Machine Learning Algorithms, ISBN: 9780735446946, Proceedings of *International Conference on Material Science*

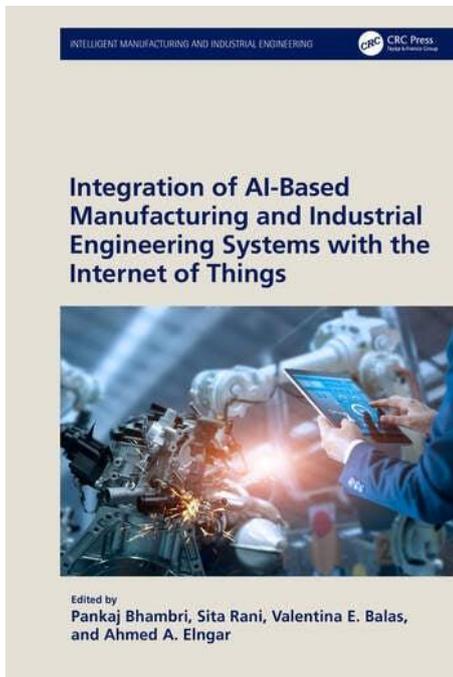
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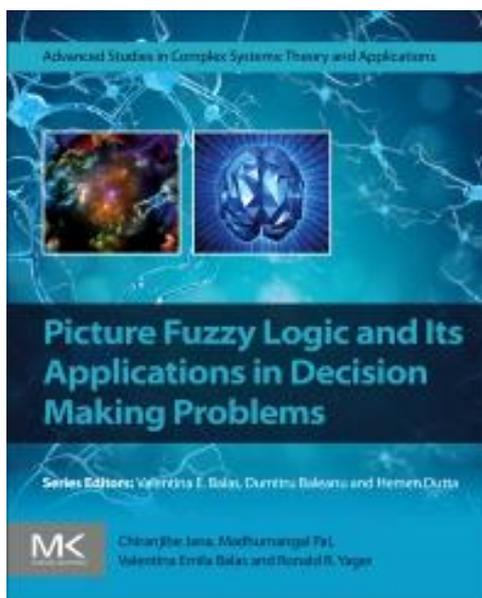
20. Editors: [Agbotiname Lucky Imoize](#), [Valentina Emilia Balas](#), [Vijender Kumar Solanki](#), [Cheng-Chi Lee](#), [Mohammad S. Obaidat](#), Handbook of Security and Privacy of AI-Enabled Healthcare Systems and Internet of Medical Things, ISBN 9781032438795, 508 Pages, CRC Press 2023, <https://www.taylorfrancis.com/books/edit/10.1201/9781003370321/handbook-security-privacy-ai-enabled-healthcare-systems-internet-medical-things-agbotiname-lucky-imoize-valentina-emilia-balas-vijender-kumar-solanki-cheng-chi-lee-mohammad-obaidat>



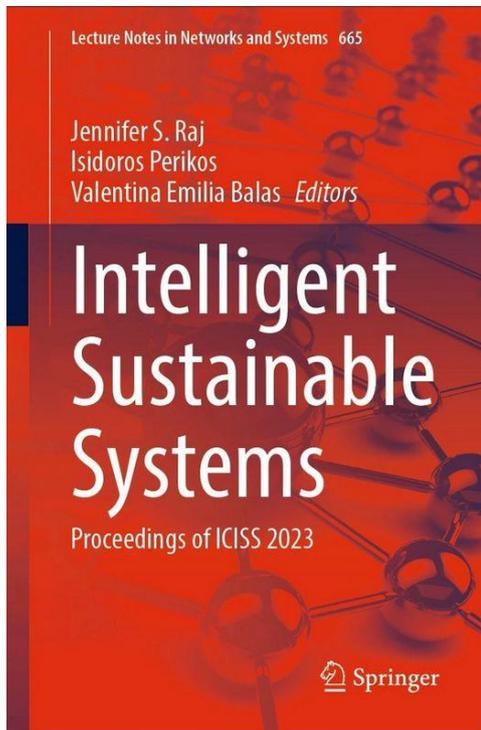
21. Editors: [Pankaj Bhambri](#), [Sita Rani](#), [Valentina E. Balas](#), [Ahmed A. Elngar](#), Integration of AI-Based Manufacturing and Industrial Engineering Systems with the Internet of Things, CRC Press 2023, DOI <https://doi.org/10.1201/9781003383505>, Pages 296, eBook ISBN 9781003383505, <https://www.taylorfrancis.com/books/edit/10.1201/9781003383505/integration-ai-based-manufacturing-industrial-engineering-systems-internet-things-pankaj-bhambri-sita-rani-valentina-balas-ahmed-elngar>



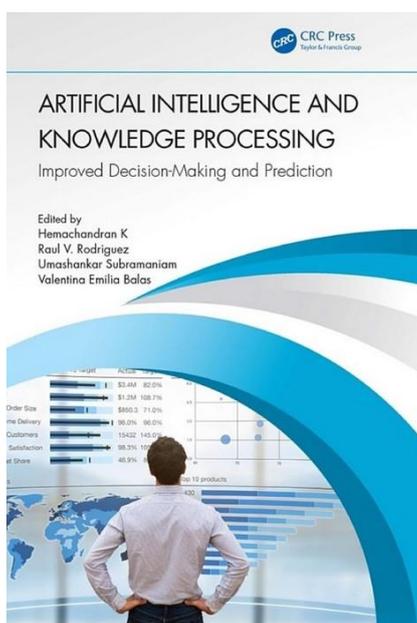
22. Authors: Chiranjibe Jana, Madhumangal Pal, **Valentina E. Balas**, Ronald R. Yager, **Picture Fuzzy Logic and Its Applications in Decision Making Problems**, Paperback ISBN: 9780443220241, eBook ISBN: 9780443220234 <https://shop.elsevier.com/books/picture-fuzzy-logic-and-its-applications-in-decision-making-problems/jana/978-0-443-22024-1>



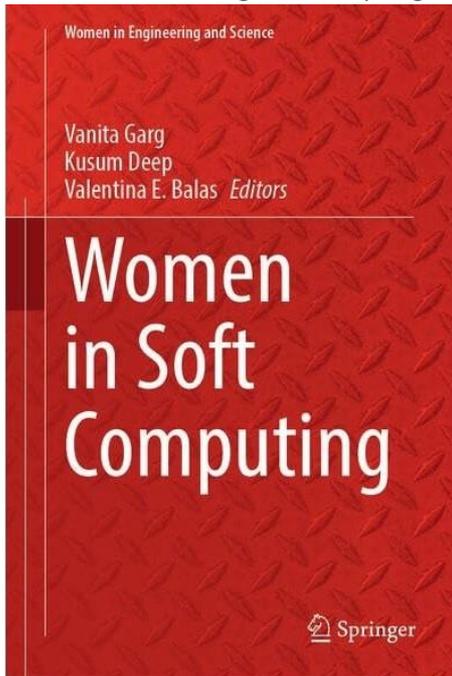
23. Editors: Jennifer S. Raj, Isidoros Perikos, **Valentina Emilia Balas**, Intelligent Sustainable Systems. Proceedings of ICISS 2023, DOI: <https://doi.org/10.1007/978-981-99-1726-6>, Softcover -981-99-1725-9, eBook ISBN 978-981-99-1726-6, Series ISSN 2367-3370, Series E-ISSN 2367-3389, Pages 868, Springer Nature 2023, <https://link.springer.com/book/10.1007/978-981-99-1726-6>



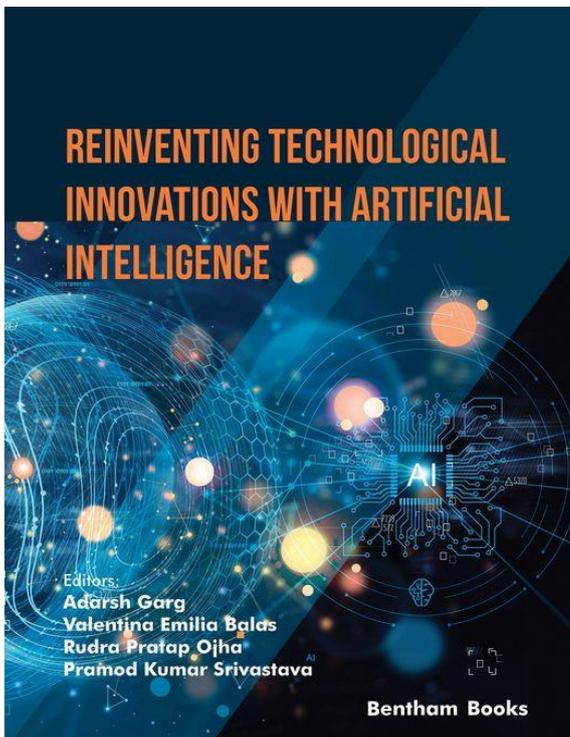
24. Editors: Hemachandran K, Raul V. Rodriguez, Umashankar Subramaniam, **Valentina Emilia Balas**, Artificial Intelligence and Knowledge Processing Improved Decision-Making and Prediction, ISBN 9781032354163, 386 Pages 148, CRC Press 2023, https://www.routledge.com/Artificial-Intelligence-and-Knowledge-Processing-Improved-Decision-Making/K-Rodriguez-Subramaniam-Balas/p/book/9781032354163?fbclid=IwAR0nvXSikkZ1HtfCKJWtpy5NJsb_DMDWHKFIVuR-SyjPSo6uPcGKrZJ0DxU



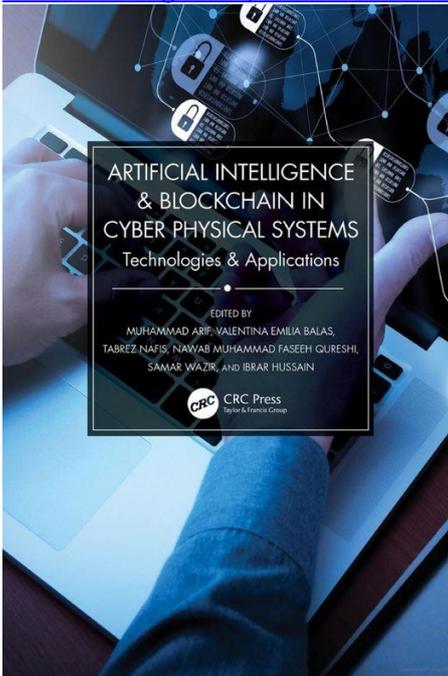
25. Editors: Vanita Garg, Kusum Deep, **Valentina Emilia Balas**, Women in Soft Computing, DOI <https://doi.org/10.1007/978-3-031-44706-8>, Hardcover ISBN 978-3-031-44705-1, Softcover ISBN 978-3-031-44708-2, eBook ISBN 978-3-031-44706-8, Series ISSN 2509-6427, Series E-ISSN 2509-6435, Pages, 156, Springer Nature 2023, <https://www.springer.com/series/15424>



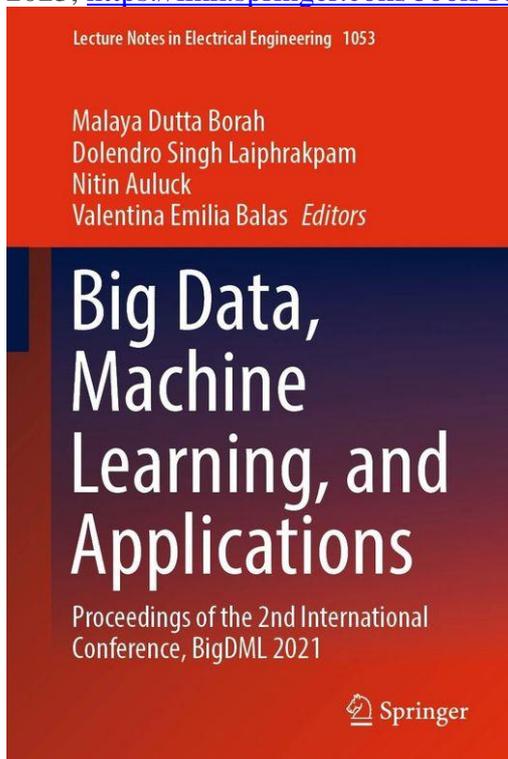
26. Editors: Adarsh Garg, **Valentina Emilia Balas**, Rudra Pratap Ojha, Pramod Kumar Srivastava, Reinventing Technological Innovations with Artificial Intelligence, Vol.1, ISBN: 978-981-5165-80-7 (Print), ISBN: 978-981-5165-79-1 (Online), DOI: [2174/97898151657911230101](https://doi.org/10.1007/978-981-5165-79-1), Bentham Books 2023, <https://benthambooks.com/book/9789815165791/#>



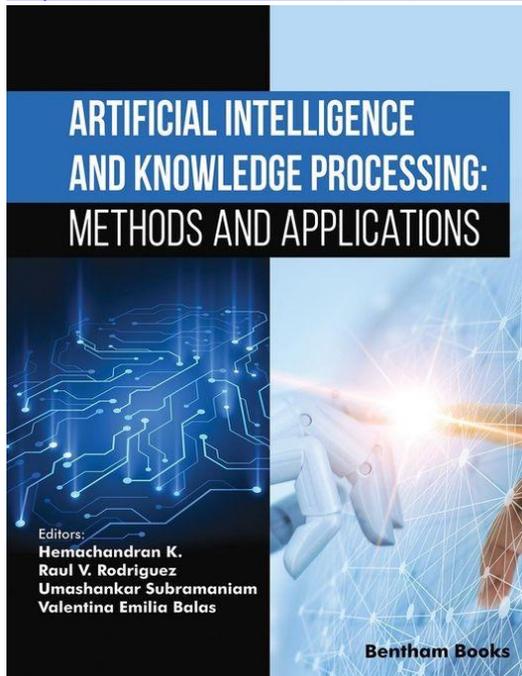
27. Editors: Muhammad Arif, **Valentina Emilia Balas**, Tabrez Nafis, Nawab Muhammad Faseeh Qureshi, Samar Wazir, Ibrar Hussain, *Artificial Intelligence & Blockchain in Cyber Physical Systems Technologies & Applications*, ISBN 9781032040363, 258 Pages, CRC Press 2023, www.routledge.com/9781032040363



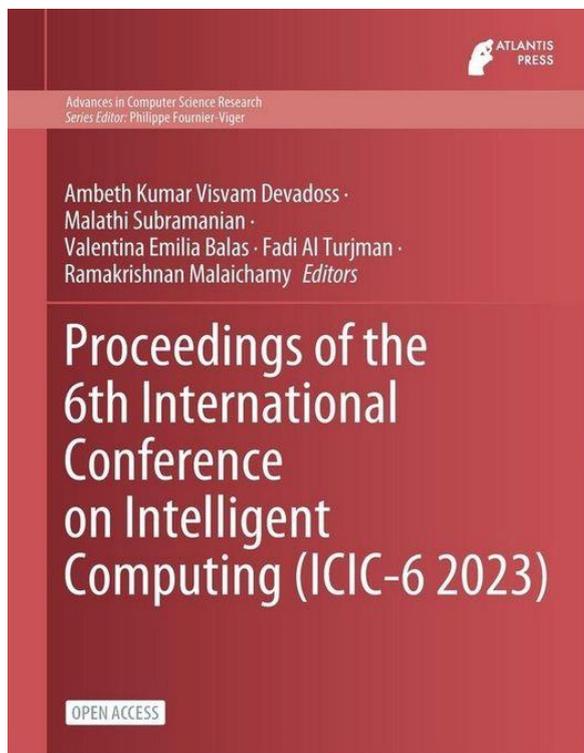
28. Editors: Malaya Dutta Borah, Laiphrahpam Dolendro Singh, Nitin Auluck, **Valentina Emilia Balas**, *Big Data, Machine Learning, and Applications. Proceedings of the 2nd International Conference, BigDML 2021, Lecture Notes in Electrical Engineering, volume 1053*, DOI: <https://doi.org/10.1007/978-981-99-3481-2>, Hardcover ISBN 978-981-99-3480-5, Softcover ISBN 978-981-99-3483-6, eBook ISBN 978-981-99-3481-2, Series ISSN 1876-1100, Series E-ISSN 1876-1119, Pages 778, Springer Nature 2023, <https://link.springer.com/book/10.1007/978-981-99-3481-2>



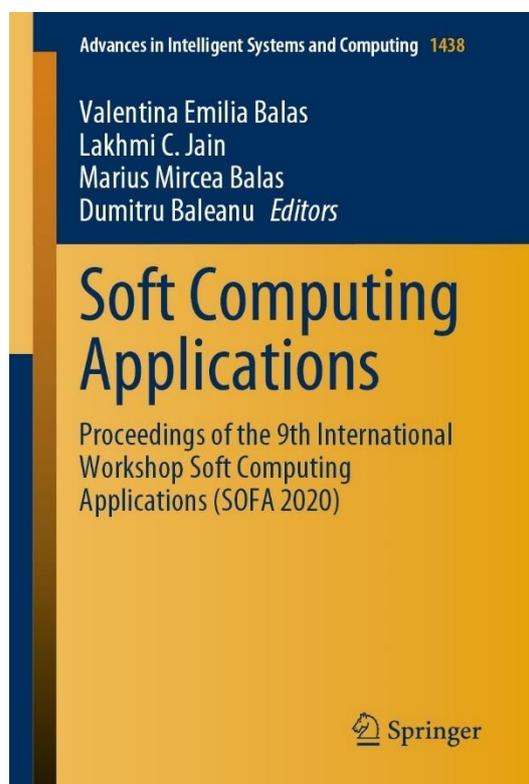
29. Editors: Hemachandran K., Raul V. Rodriguez, Umashankar Subramaniam, **Valentina Emilia Balas**, Artificial Intelligence and Knowledge Processing: Methods and Applications, Bentham Science Books 2023, ISBN: 978-981-5165-74-6 (Print), ISBN: 978-981-5165-73-9 (Online), DOI: [10.2174/97898151657391230101](https://doi.org/10.2174/97898151657391230101)
<https://benthambooks.com/book/9789815165739/>



30. Editors: Ambeth Kumar Visvam Devadoss, Malathi Subramanian, **Valentina Emilia Balas**, Fadi AL-Turjman, Ramakrishnan Malaichamy, Proceedings of the 6th International Conference on Intelligent Computing (ICIC-6 2023), DOI [10.2991/978-94-6463-250-7_1](https://doi.org/10.2991/978-94-6463-250-7_1), Atlantis Press, part of Springer Nature,
<https://www.atlantis-press.com/proceedings/icic-6-23/125993029?fbclid=IwAR1MSEMjQ0-NftISZonCc6D4FbwIFL0uwQh0Yqdx56IOUcChu1LyPnKtAJM>



31. Editors : Valentina E. Balas, Lakhmi C. Jain, Marius M. Balas, Dumitru Baleanu, Soft Computing Applications, Proceedings of the 9th International Workshop Soft Computing Applications (SOFA 2020), Book series: [Advances in Intelligent Systems and Computing](#), Nr. 1438. DOI <https://doi.org/10.1007/978-3-031-23636-5>, Softcover ISBN 978-3-031-23635-8, eBook ISBN 978-3-031-23636-5, Series ISSN 2194-5357, Series E-ISSN 2194-5365, 737 pages, Springer 2023



e) Aplicatii de proiecte de cercetare/Proiecte de cercetare in derulare castigate in competitii internationale/nationale

Se noteaza titlul proiectului, directorul/membrii din echipa de cercetare, competitia, suma (pentru proiectele in derulare).

1. Coordonator; Proiect cu Ministerul Educatiei pentru finantarea Sesiunii Stiintifice Studentesti 2023 la Facultatea de Inginerie
2. Membru in Contractul de cercetare cu numar de inregistrare 26/16.07.2022 intre Universitatea Aurel Vlaicu si SC Contact Plus SRL Arad: **Suținerea progresului tehnologic în servicii: modele matematice și soluții concrete**, director de proiect Cornel Barna, valoare. **50.000** lei,

Alte activitati:

- a. Lista cu lucrari de licenta supervizate iulie-septembrie 2023

Nr.crt.	Numele și prenumele	Titlul lucrării de licență	Îndrumător
1	Almasi Robert	Simularea unei linii automate de productie textila	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
2	Babau Paul-Mihai	Stabilizator gyroscopic pe o axa	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
3	Bac Cristian Darius	Sistem de Securitate SMART	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
4	Chis Ionut Marius	Web development pentru comert electronic	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
5	Cristea Razvan Catalin	Automatizarea unei linii de asamblare PCB	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
6	Florea Andreea Daniela	Sistem de Securitate si monitorizare pentru imobile	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
7	Ghiura Samuel	Echipament inserare arc si vaselina	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
8	Lucaciu Mircea Andrei	Simularea unei statii de umplere a sticlelor	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
9	Nemoianu Sanda Daniela	Sistem de recunoastere faciala	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
10	Oaida Andrei Ilie	Utilizarea POWER BI si POWER AUTOMATE pentru imbunatatirea	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia

11	Palaghiu Eduard Eugen	Simularea si analizarea unei linii automate de productie	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
12	Palea Lidia Alexandra	Spalatorie automata de masini utilizand microcontrolerul Arduino	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
13	Petric Gheorghe	Optimizarea si functionarea unei linii de productie	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
14	Crisan Valentin Daniel	Senzori de umiditate – Studiu bibliografic	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
15	Dogaru Eduard Sebastian	Utilizarea undelor radio în dezvoltarea unui senzor de detectare a prezenței	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
16	Foghis Raul Alexandru Ioan	Vehicul 4WD cu comandă prin bluetooth	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
17	Luca-Maris Denisa Ana Maria	Sistem automat de iluminat	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
18	Gaiu Adrian Iulian	Industria textila - automatizari	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia

Lista cu lucrari de disertatie supervizate iulie-septembrie 2023

Nr.crt.	Numele și prenumele	Titlul lucrării de licență	Îndrumător
1	ARDELEAN I. IONUȚ-CĂTĂLIN	LINIE AUTOMATIZATĂ DE SORTARE CUTII	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
2	BANDA S. EMANUEL-SEBASTIAN	GHIDARE AUTOMATĂ PENTRU AGRICULTURA DE PRECIZIE	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia

3	LĂCĂTIȘ I. ANDREI-IOAN	SISTEM DE CONTROL AL ACCESULUI CU RECUNOAȘTERE FACIALĂ	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
4	MOȚ F. PATRICK	SIMULARE SISTEM AUTOMATIZAT DE MONITORIZARE ȘI CONTROL	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
5	OLĂNESCU V.N. VLAD-ALEXANDRU-IONUȚ	OPTIMIZAREA PROCESELOR ȘI MODERNIZAREA EXPERIENȚEI ÎNTR-O LIBRĂRIE ELECTRONICĂ	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia
6	PURDI O. OVIDIU-VLAD	TEXT INSPECTOR. APLICAȚIE WEB ANALIZA TEXTULUI CU ALGORITMI DE INTELIGENȚĂ ARTIFICIALĂ ANGULAR-SPRING-MONGO	Prof. Univ. Dr. Ing. Bălaș Valentina-Emilia

Membru Comisie de Licență/Disertație

Comisie Licența la AIA – (iulie+septembrie)

Comisie Disertație la ASI – (iulie+septembrie)

Membru în comisie de doctorat sau de promovare pe post

- în Rwanda – 1 comisie de doctorat supervizat de mine

1. Coordonator al tezei de doctorat pentru **CLAUDIA ABINEZA** cu Teza: *Design of Prediction Model and Decision Support System for COPD Patients Management Based on a Pulse Oximetry Protocol, la African Center of Excellence in Internet of Things (ACEIoT), University of Rwanda, Kigali, RWANDA, sustinuta in 18 decembrie 2023.*

in Romania - 4 comisii

1. Membra în comisia pentru susținerea tezei de doctorat a domnului Ing. **MARIUS FISCA**: "Sisteme de Protecție Automată în Rețele de Alimentare ale Marilor Consumatori" sustinuta la Universitatea Tehnică din Cluj-Napoca în domeniul INGINERIA SISTEMELOR, 22 aprilie 2023.
2. Membra în Comisia de concurs pentru ocuparea postului de conferențiar universitar la Departamentul de Automatică și Tehnologia Informației, Facultatea de Inginerie Electrică și Știința Calculatoarelor de la Universitatea Transilvania din Brașov -**Sl.dr.ing. SIMONA COMAN**, ianuarie 2023.
3. Membra în Comisia de concurs pentru ocuparea postului de Conferențiar a **Sl.dr.ing. IRINA ANDRA TACHE** la Facultatea de Automatică și Calculatoare, Universitatea Politehnică București, 29 iunie 2023.
4. Membra în Comisia de concurs pentru ocuparea postului de conferențiar universitar la Departamentul de Ingineria Sistemelor Automate și Management, Facultatea de Inginerie Electrică și Tehnologia Informației de la Universitatea din ORADEA Sl.dr.ing. SANDA DALE, 5 septembrie 2023.

- in Australia – 1 comisie de doctorat

- Lars Kooijman - *Vibrotactile Stimulation to Enhance Self-Motion Sensations in Virtual Reality, Deakin University, AUSTRALIA.*

- **in Pakistan** – 2 comisii promovari pe post
 - Dr. Syed Muzamil Ali Bokhari, promovare pe post de Associate Professor la University of Balochistan, PAKISTAN
 - Dr. Waheed Noor, promovare pe post de Associate Professor la Department of Computer Science & Information Technology at the University of Balochistan, PAKISTAN

In India – 38 de teze evaluate

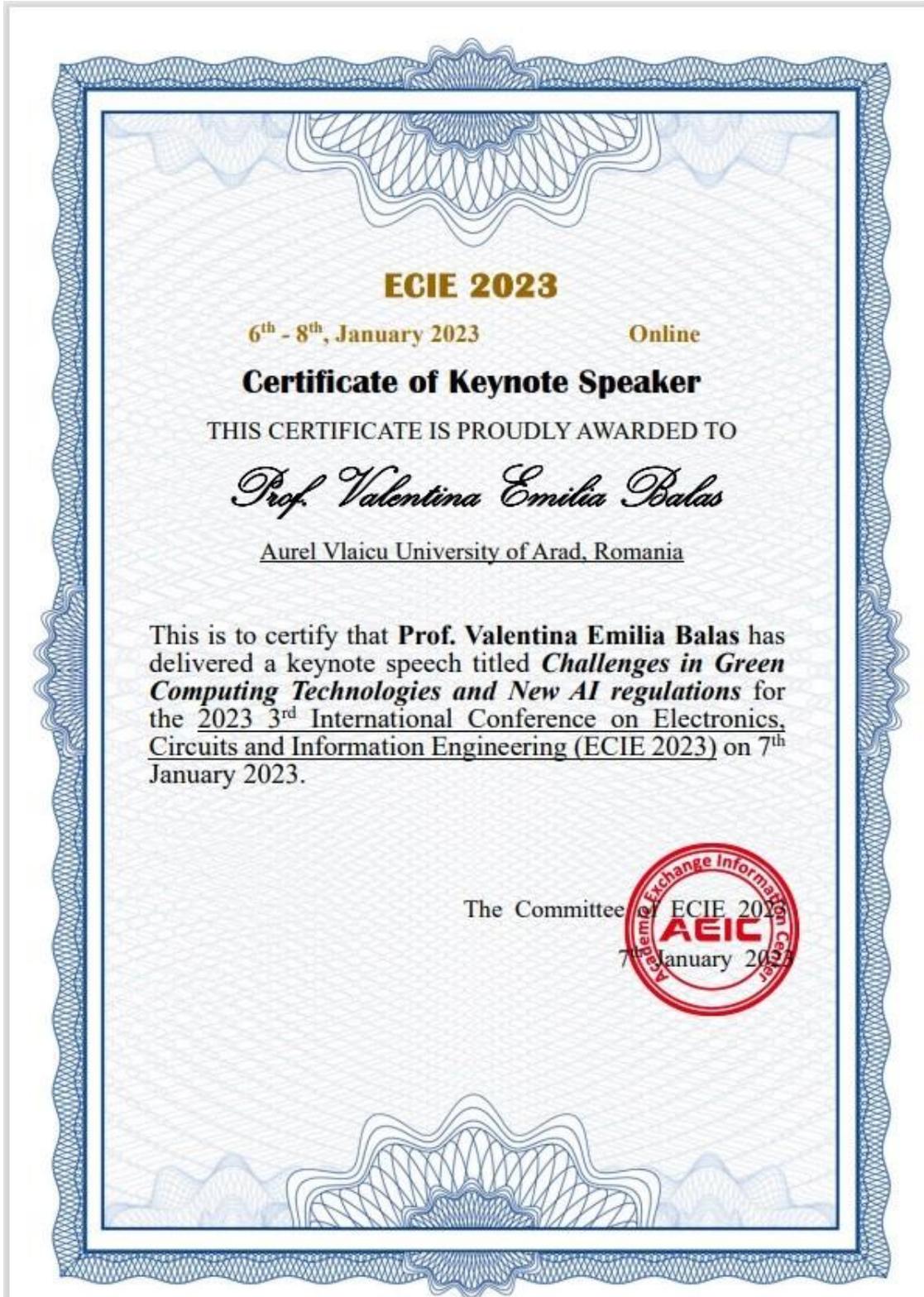
1. M Amala Jayanthi - *An integrated framework for students' academic performance prediction based on affective and cognitive state using mixed numeric and categorical data*, Avinashilingam Institute for Home Science and Higher Education for Women Coimbatore, India
2. AMBILY FRANCIS - *Development of computational methods for the detection of alzheimer's disease*, SCHOOL OF ENGINEERING & TECHNOLOGY, Karunya Institute of Technology and Sciences, Coimbatore, India
3. Ankita Wadhawan, *Indian sign language recognition system for simple manual signs*, Computer Science and Engineering Department Thapar Institute of Engineering and Technology, Patiala, India
4. Anuja Angel M., *Determining routing issues and designing routing protocols for wireless sensor networks*, Faculty of Information and Communication Engineering, Anna University Chennai, India
5. Asha P Nair, *Lyapunov Based Stable and Robust Adaptive Control Design for a Class of Space Transportation Systems*, Department of Avionics, Indian Institute of Space Science and Technology, Thiruvananthapuram, India
6. Evans Kotei, *CNN-transformer-based deep learning models coupled with explainability for automatic detection of tuberculosis from chest x-ray image modalities*, School of Computer Science Engineering and Information Systems, VIT Vellore, India
7. Rajalakshmi G, *An intelligent framework using ai techniques for detection of abnormal situation based on multiple cues*, Department of Computer Science and Engineering, Faculty of Engineering and Technology, Annamalai University, Annamalainagar, Tamil Nadu, India
8. Ganambikai P., *Design of efficient arithmetic datapath units for digital image and signal processing*, Faculty of Information and Communication Engineering Anna University Chennai, India
9. Jaculin Femil J., *A novel method for classifying melanocytic tumors*, Faculty of Information and Communication Engineering, Anna University, Chennai, India
10. Kaleeswaran D., *Design and development of energy efficient WSN based on GA and OCMR*, Faculty of Information and Communication Engineering, Anna University, Chennai, India
11. Kamaljit Kaur, *An AI based Framework for Crowd-sourced Requirements Engineering*, Guru Nanak Dev University, Amritsar, India
12. Kushala V. M., *Novel approach for agricultural domain to predict organic fertilizers based on soil health using deep learning ontology*, Department of Information Science and Engineering, Sri Siddhartha Academy of Higher Education, Maralur, Tumakuru, India
13. Lalit Chettri, *Design of 5G wireless technology enabling machine type communications*, Sikkim Manipal University, India
14. Meena Moharana, *BMI indexing based predictive analysis of EAO (early age obesity) for US children*, School of Computer Engineering, Kalinga Institute of Industrial Technology (kiit) deemed to be University, Bhubaneswar, India
15. Muruga Chandravel I., *Study and analysis of multiresolution based enhancement level set segmentation algorithm for brain MR images*, Faculty of Information and Communication Engineering, Anna University, Chennai, India

16. Vijayan P., *Design and analysis of secured data transmission in low latency manets using hybrid meta-heuristic optimization models*, Department of Computer Science and Engineering, Faculty of Engineering and Technology Annamalai University Annamalainagar, Tamil Nadu, India
17. P. Velmurugadass, *Secure and energy aware data transmission model for IOT based wireless sensor networks using blockchain technology*, Department of Computer Science & Engineering School of Computing Kalasalingam Academy of Research and Education, Anand, Nagar, Krishnankoil, India
18. Patil Sonal Pramod, *Design and analysis of bioinspired CNN architecture for improving forgery detection in images and videos*, Department of Computer Science and Engineering, Sardar Vallabhbhai National Institute of Technology, Surat, India
19. Pvsan Gopala Krishna, *A systematic approach to urban building extraction from high-resolution remote sensing images*, Department of Computer Science and Engineering Vignana's Foundation for Science, Technology & Research, Vadlamudi Guntur, Andhra Pradesh, India
20. Raghupathi C., *Investigation of accurate consumer electricity bill prediction using enhanced long short-term memory*, Faculty of Electrical Engineering, Anna University, Chennai, India
21. Rahul Kumar, *Design of Adaptive Controllers for Uncertain Nonlinear Discrete -Time Systems with Unknown Disturbances using Soft Computing Techniques*, Shri Mata Vaishno Devi University, Kakryal, Katra, India
22. Rajinder Vir, *ECC based Authentication Scheme for Wireless Sensor Networks*, GNA University, Phagwara, India
23. S. Dilipkumar, *A novel intrusion detection system using deep learning techniques for MANETS*, Bharathidasan University, Tiruchirappalli, India
24. S. Karimulla Basha, *Comparative Analysis of Next Forwarder Selection Algorithm in VANET's*, K.L.University, Andhra Pradesh, India
25. Saravanakumar C., *High speed area efficient modified fast Fourier transform algorithm for bioinformatics applications*, Faculty of Information and Communication Engineering, Anna University, Chennai, India
26. Sehajpal Kaur, *Design and Characterization of Mach-Zehnder Interferometer based All-Optical Signal Processing Devices for 1.46 μm wavelength*, Guru Nanak Dev University, Amritsar, India
27. Shamija Sherryl R. M. R., *Automatic detection of kidney lesions using IED-ResUNet architecture*, Faculty of Information and Communication Engineering, Anna University, Chennai, India
28. Shweta Saboo, *Vision-Based Hand-Gesture Recognition System Using Trajectory-Guided Temporal Features in Challenging Environments*, Department of Electronics and Communication Engineering, The LNM Institute of Information Technology, Jaipur, India
29. Sourav Chakraborty, *Efficient low complexity mimo detection algorithm design for wireless systems*, Department of Electronics and Telecommunication Engineering, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India
30. Stalin M., *Certain investigations on learner performance prediction using machine learning classifiers in indian education system*, Faculty of Information and Communication Engineering, Anna University, Chennai, India
31. Subha S., *Performance analysis of intelligent control strategies for energy management in smart grid environment*, Faculty of Information and Communication Engineering, Anna University, Chennai, India
32. Sujathadevi R., *Hyper intelligent apiculture system using Internet of Things*, Faculty of Science and Humanities, Anna University, Chennai, India
33. Swadha Gupta, *Cognitive Analysis-Based System for Effective Online Learning*, Department of Computer Science & Engineering Thapar Institute of Engineering and Technology Patiala, India

34. T. Mathi Murugan, *A meta-heuristic classification algorithm with multi objective based swarm intelligence techniques for large structured information*, Sathyabama Institute of Science & Technology, India
35. Jeya Ramya V, *Metaheuristic optimization based deep learning models for classification of leukemia from blood microscopic images*, Sathyabama Institute of Science & Technology, India
36. P. Velmurugadass, *Secure and energy aware data transmission model for IOT based wireless sensor networks using blockchain technology*, Kalasalingam Academy of Research and Education, India
37. Vempalle Rafi, *Power system reconfiguration using different heuristic algorithms to minimize the losses in radial distribution systems*, School of Electrical and Communication, Veltech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai India
38. Viveka T., *Analysis of food database for preventing diabetes level in statistical data mining*, Faculty of Information and Communication Engineering, Anna University, Chennai, India

a) invitat cu conferință în plen

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.



2. **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.



3. **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/>



4. **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>
5. **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, FIEEE, Professor Head of Communication Systems Research (CSR) Group, School of Electronic Engineering and Computer Science, Queen Mary University of London, UK
- Ljiljana Trajkovic FIEEE, 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 Majhi, Asso. Professor, Indian Institute of Science, Bangalore
- Dr.Thalman Daniel, Professor at EPFL, Director (MIRALab)

6. **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 RITI kafedrası, Azərbaycan

prof. Janusz Kacprzyk, Systemların Tədqiqatı İnstitutu, Polşa

prof. Oskar Kastliyo, Tijuana Texnologiyalar İnstitutu, Meksika

prof. Vadim Stefanyuk, Rusiya Elmlər Akademiyası, Rusiya

prof. Valentina Emilia Balas, Aurel Vlaicu Universiteti, Rumıniya

prof. Marius M. Balas, Aurel Vlaicu Universiteti, Rumıniya

Baku 5, M. Muxtarov - 194 (UNEC III tədris binası)

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

7. **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/>

ARYA
College of Engineering & I.T.
Mukhla, Jabalpur

4th International Conference on Recent Trends in Communication & Intelligent Systems
ICRTCS 2023
Department of Electronics & Communication Engineering

Keynote Address

Prof. (Dr.) Valentina E. Balas
Professor
Automation and Applied Informatics
Aurel Vlaicu University of Arad, ROMANIA

Nikita Sharma
Valentina Emilia Balas
Arya College of Engineering
Rakesh Kumar Sharma
Dr. Shruti Pancholi

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8:34 AM
RO 4/29/2023

8. **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>

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IEEE Computational Intelligence Society

2nd International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES-2023)
Organised by
Department of Master of Computer Applications

Chief Guest

Dr. Satyakesh Dubey
Senior scientist at CSIR-National physical Laboratory, Institute for Plasma Research, Delhi, India

Guest of Honour

Mr. Vishal Gupta
Director & CEO, AIEEEV Technologies Pvt. LTD.

Dr. Deepak Garg
Dean, Computer Science Engineering and Technology, Bennett University
Director at leadindia.ai, NVIDIA-Bennett Research Center on Artificial intelligence

Speakers

Dr. Marsali Krishna Iyanki
Chairman, SPDS Working Group On Essential Environment & Health Factors Prof/Asst BTE/Asst Dr. Raja Ramanna Distinguished Fellow, DRDO

Dr. Arindam Pal
Senior Research Scientist, CSIRO, Consultant Senior Lecturer, (University of New South Wales), Sydney, New South Wales, Australia

Marley Wellesco
IEEE CSE Officer Conference also, Prof. IT Department of IISc-Vis Head (CA) of IISc-Vis, Brazil

Dr. Neelishia Pillay
Prof. Department of Computer Science, University of Pretoria, Gauteng, S.A.

Dr. Valentina Emilia Balas
Prof. HABLE - Aurel Vlaicu University of Arad Romania, Head of the Intelligent Systems Research Group Arad, Romania

Nikita Kumar Jha
Co-Founder at Spectral Delhi/Bombay, Mumbai India - India

Date: 28th - 30th April, 2023 | Venue: SBG Hall, Academic Block II

9. **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.



- 10. 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/>

2023 3rd International Conference on Robotics and Control Engineering (RobCE 2023)
May 12-14, 2023 / Nanjing, China

ROBCE 2023 KEYNOTE SPEAKERS

				
Prof. Valentina Emilia Balas	Prof. Hesheng Wang	Prof. Jianwei Zhang	Prof. Makoto Iwasaki	Prof. Zhengtao Ding

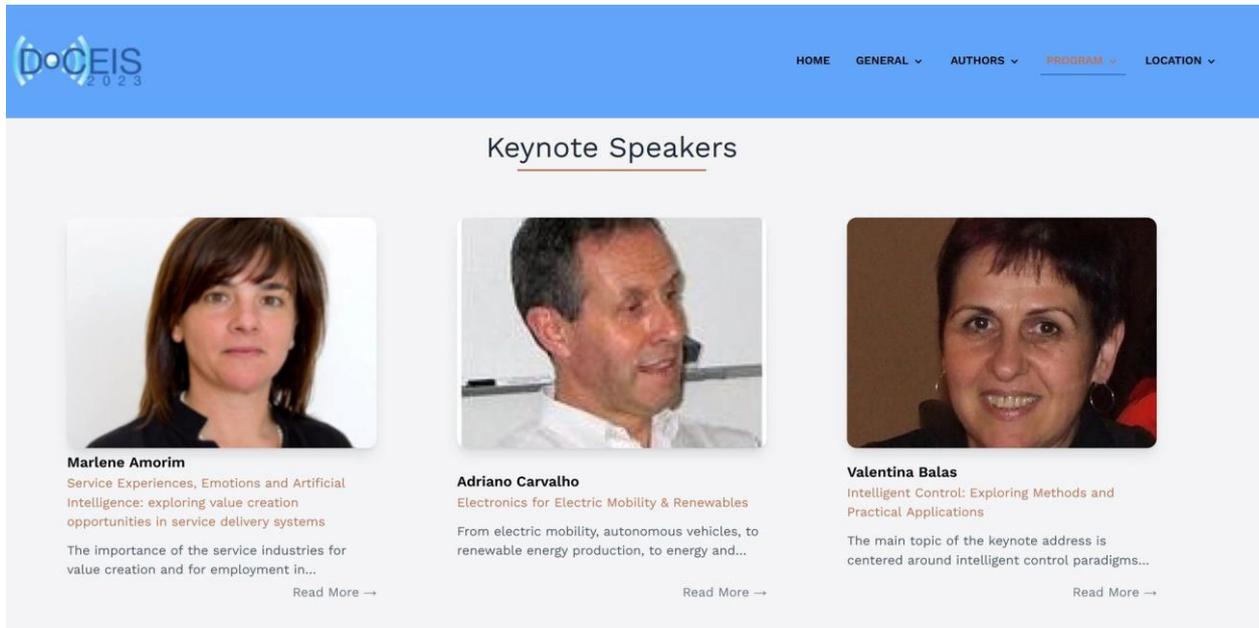
Aurel Vlaicu University of Arad, Romania Shanghai Jiao Tong University, China Universität Hamburg, Germany Nagoya Institute of Technology, Japan University of Manchester, UK

- 11. 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



- 12. 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/keynote-speakers>

- 13. 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 →](#)

- 14. 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

15. **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/>



16. 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, <i>Professor</i> <i>Department of Automation and Applied Informatics</i> <i>Head of the Department of International Relations</i> <i>University of Arad, Romania.</i></p> <p>Dr. Marius M. Balas, <i>Habilitated Professor</i> <i>University of Arad, Romania</i></p> <p>Dr. Ammanamanchi Venkata Jaya Sai Praneeth, <i>Senior Engineer</i> <i>BorgWarner Inc., Hautcharage, Luxembourg.</i></p> <p>Dr. Vijay K. Sood, <i>Professor</i> <i>Department of Electrical, Computer and Software Engineering</i> <i>Ontario Tech University, Oshawa.</i></p> <p>Dr. K. Siva Kumar, <i>Professor</i> <i>Indian Institute of Technology, Hyderabad</i></p> <p>Dr. Y. Pradeep Kumar, <i>Associate Professor</i> <i>Indian Institute of Technology, Hyderabad.</i></p> <p>Dr. Naeem M. S. Hannon, <i>Professor</i> <i>University Technology Mara, Malaysia</i></p>	<p>WORKSHOP VISION</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</i> <i>Prasad V Potluri Siddhartha Inst. of Tech.</i> hemanthsai.madupu@pvpsiddhartha.ac.in <i>Mobile: +91 9052176170</i></p> <p>B. Bala Saibabu, <i>Assistant Professor</i> <i>Prasad V Potluri Siddhartha Inst. of Tech.</i> saibabu.dec31@pvpsiddhartha.ac.in <i>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>

17. **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,



Chunlei 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



Kuchairi Mohd Salleh
University Sains Malaysia, Malaysia



Kejun Zhang
Zhejiang University, China



Xiaodong Wang
Xi'an University of Technology,
China



Baiyi 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=IwAR3e8zq5yTZL3L5nURbSO Dcn3-pO4sVYEzoCCf4OwWyAQd akONSdjtKPRY>,

The image is a certificate of appreciation for the 1st International Conference on Artificial Intelligence, Advanced Materials, & Mechatronics Systems (AIAMMS-2023). The 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. The certificate is organized by the School of Engineering & Technology, JECRC University, Jaipur. The certificate features logos for JECRC University, G20 India, Azadi Ka Amrit Mahotsav, and AIAMMS/1001. The certificate is signed by Prof. (Dr.) Ajay, Prof. (Dr.) Naveen Hemrajani, and Prof. Victor Gambhir. The certificate is framed by a red border and includes logos for Springer, Routledge, Wiley, AIP Conference Proceedings, Scientific.Net, SEATRANS, Lingert, and IEEE Photonics Society.

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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

Springer Routledge WILEY AIP Conference Proceedings Scientific.Net SEATRANS Lingert IEEE Photonics Society

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**

DATTA MEGHE INSTITUTE OF HIGHER EDUCATION & RESEARCH (DEEMED TO BE UNIVERSITY) NAAC A++ (CGPA 3.78)

FACULTY OF ENGINEERING AND TECHNOLOGY (A CONSTITUENT UNIT OF DMIHER)

IEEE BOMBAY SECTION

IEEE Advancing Technology for Humanity

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. 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. Lalitbhusan Waghmare
Vice-Chancellor DMIHER (DU)

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

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Chief Coordinator DMIHER (DU)

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

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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

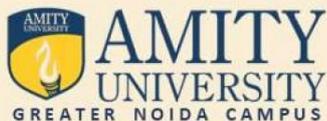
Dr. Utkarsha Pacharany 9820791995
Mr. Chetan Puri 9975281500

Dr. Prateek Verma 7417796557
Mr. Palash Gourshettiwar 9420063262

Mr. Gaurav Shrivastav 8527859577
Mr. Amit Gudadhe 9423369018

Dr. Swapnil Gundewar 9834293650
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,



**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.

Handwritten signature of Prof. (Dr.) Ajay Rana in blue ink.

Prof. (Dr.) Ajay Rana

General Chair, UPCON-2023

Director General, AUUP, Greater Noida

Handwritten signature of Dr. Satish K. Singh in blue ink.

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 Šiaulyš</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)

Membru in colegiul de redactie (editorial board) la reviste ISI:

Nr.	Anul	Numele cadrului didactic	Revista	ISSN	Pagina web www.	Pozitia ocupata
1	2023	Valentina E. Balas	IEEE Transactions on Industrial Informatics Q1, IF=12,3 ISI	1551-3203	https://www.ieee-ies.org/pubs/transactions-on-industrial-informatics/180-associate-editors	Associate Editor
2	2023	Valentina E. Balas	IEEE Access, Q2, IF=3,9 ISI	2169-3536	https://ieeaccess.ieee.org/ https://ieeaccess.ieee.org/editorial-leadership-and-staff/associate-editors/	Associate Editor
3	2023	Valentina E. Balas	Electronics Q2, IF=2,9 ISI	2079-9292	https://www.mdpi.com/journal/electronics/editors	Editorial Board Member
4	2023	Valentina E. Balas	PeerJ Computer Science Q2 IF=3,8 ISI	2376-5992	https://peerj.com/ValentinaBalas/	Editor
5	2023	Valentina E. Balas	Acta Polytechnica Hungarica Q3 IF=1,7 ISI	20642687	https://www.uni-obuda.hu/journal/	Associate Editor Informatics
6	2023	Valentina E. Balas	Intelligent Decision Technologies ESCI	1872-4981	http://www.iospress.nl/journal/intelligent-decision-technologies/	Associate Editor
7	2023	Valentina E. Balas	International Journal of System Dynamics Applications IF=1,8 ISI	2160-9772	https://www.igi-global.com/journal/international-journal-system-dynamics-applications/51803	Associate Editor Editorial Board

8	2023	Valentina E. Balas	Open Engineering formerly Central European Journal of Engineering IF=1,7 ISI	2391-5439	https://www.degruyter.com/view/j/eng?lang=en	Editor Artificial Intelligence and Automation & Control Systems
9	2023	Valentina E. Balas	Journal of Intelligent Systems IF=3 ISI	2191-026X	https://www.degruyter.com/view/j/jisys?lang=en	Editorial Board
10	2023	Valentina E. Balas	Computer Animation and Virtual Worlds IF=1,1 ISI	1546-4261	https://onlinelibrary.wiley.com/page/journal/1546427x/homepage/editorialboard.html	Associate Editor
11	2023	Valentina E. Balas	International Journal of Computers Communications & Control Q3, IF=2,7 ISI	Online 1841-9844	https://univagora.ro/jour/index.php/ijccc/	Editorial Board

Membru in colectivele de redactie sau editoriale internationale

r.	Anul	Numele cadrului didactic	Revista	ISSN	Pagina web www.	Pozitia ocupata
1	2023	Valentina E. Balas	Journal of Information Technology & Software Engineering	2165- 7866	https://www.longdom.org/information-technology-software-engineering/editorial-board.html	Editorial Board
2	2023	Valentina E. Balas	Journal of Computer Science and Control Systems (JCSOS)	1844-6043	https://electroinf.uoradea.ro/index.php/jcscs.html	Asociat Editor

3	2023	Valentina E. Balas	International Journal of Next-Generation Computing	2229-4678	http://www.ijngc.perpetualinnovation.net/index.php	Editorial Board
4	2023	Valentina E. Balas	American Journal of Intelligent Systems	2165-8978	http://www.sapub.org/journal/editorialdetails.aspx?JournalID=1060&PersonID=16075	Editorial Board
5	2023	Valentina E. Balas	Journal of Computer Science & Systems Biology	0974-7230	https://www.omicsonline.org/editorialboard-computer-science-systems-biology-open-access.php	Editorial Board
6	2023	Valentina E. Balas	International Journal of Modern Computation, Information and Communication Technology	2581-5954	http://ijmcict.gjpublication.com/editorial-board.html	Editor
7	2023	Valentina E. Balas	Journal of Medical Informatics and Decision Making	2641-5526	https://openaccesspub.org/journal/jmid/editorial-board	Editorial Board
8	2023	Valentina E. Balas	Journal of Automation and Control Engineering	2301-3702	http://www.ioace.org/	Editorial Board
9	2023	Valentina E. Balas	Agricultural Engineering Research Journal	2218-3906	http://www.idosi.org/aerj/board.htm	Editorial Board
10	2023	Valentina E. Balas	International Journal of Advanced Computer Science and Information Technology	2296-1739	http://elvedit.com/journals/IJACSIT/editorial-board/	Editorial Board
11	2023	Valentina E. Balas	International Journal of Granular Computing, Rough Sets and Intelligent Systems	1757-2711	https://www.inderscience.com/jhome.php?jcode=ijgcrsis	Editorial Board
12	2023	Valentina E. Balas	International Journal of Reasoning-based Intelligent Systems	1755-0556	https://www.inderscience.com/jhome.php?jcode=ijris#edboard-content	Editorial Board

13	2023	Valentina E. Balas	Cyber Journals: Multidisciplinary Journals in Science and Technology	1925-2676	http://www.cyberjournals.com/associates.html	Associate Editor
14	2023	Valentina E. Balas	International Journal of Nanotechnology and Molecular Computation	1941-6318	https://www.igi-global.com/journal/international-journal-nanotechnology-molecular-computation/1117	Associate Editor
15	2023	Valentina E. Balas	Turkish Journal of Analysis and Number Theory	2333-1100	http://www.sciepub.com/journal/TJANT/editors	Editor
16	2023	Valentina E. Balas	International Journal of Bio-Medical Informatics and e-Health	2321 - 9017	http://www.warse.org/IJB-MIeH/editorialBoard	Advisory Committee Member
17	2023	Valentina E. Balas	Engineering Science & Technology	2717-5235	https://ojs.wiserpub.com/index.php/EST/about/editorialTeam	Editorial Board
18	2023	Valentina E. Balas	International Journal of Computers and Communications	2074-1294	http://www.naun.org/cms.action?id=3050	Associate Editor
19	2023	Valentina E. Balas	International Journal of Digital Contents and Applications for Smart Devices	2205-8532	http://gvpress.com/journals/IJDCASD/eb.php	Editorial Board
20	2023	Valentina E. Balas	International Journal of Advanced Robotics and Automation	2473-3032	https://symbiosisonlinepublishing.com/robotics-automation/editorialboard.php	Editorial Board
21	2023	Valentina E. Balas	Suresh Gyan Vihar University Journal of Engineering & Technology	2277-6915	https://www.gyanvihar.org/researchjournals/editorial_board.php	Advisory Board

22	2023	Valentina E. Balas	Journal of Fuzzy Extension & Applications (JFEA)	2783-1442	http://www.journal-fea.com/journal/editorial-board	Editorial Board
23	2023	Valentina E. Balas	Recent Advances in Computer Science & Technology	Coming Soon	https://racsat.org/	Editorial Board
24	2023	Valentina E. Balas	BOHR International Journal of Smart Computing and Information Technology (BIJSCIT)	2583-2026	BOHR Publishing	Editorial Board
25	2023	Valentina E. Balas	<i>Journal of Mahani Mathematical Research (JMMR)</i>	2251-7952	https://jmmrc.uk.ac.ir/journal/editorial.board	Editorial Board
26	2023	Valentina E. Balas	Informatics in Medicine Unlocked (Elsevier)	2352-9148	https://www.sciencedirect.com/journal/informatics-in-medicine-unlocked/about/editorial-board	Editorial Board
27	2023	Valentina E. Balas	International Journal of Cyber Forensics and Advanced Threat Investigations	2753-9997	https://conceptchint.net/index.php/CFATI/about/editorialTeam	Associate Editor
28	2023	Valentina E. Balas	Journal of Soft Computing and Artificial Intelligence	2717-8226	https://dergipark.org.tr/en/pub/jscai/board	Editorial Board
29	2023	Valentina E. Balas	International Journal of Computing and Related Technologies	(Print): 2518-4806 (Online): 2663-5429	http://ijcrt.smiu.edu.pk/ijcrt/index.php/smiu/eb	Editorial Board
30	2023	Valentina E. Balas	Intelligent Multimedia Processing and Communication Systems	2783-2570	https://impcs.zanjan.iau.ir/?lang=en	International Editorial Board

Editor/Redactor sef

2 reviste BDI –

1 revista de alt tip

1	2023	Valentina E. Balas	International Journal of Advanced Intelligence Paradigms SCOPUS	1755-0394	https://www.inderscience.com/jhome.php?jcode=ijaip	Editor in Chief
2	2023	Valentina E. Balas	International Journal of Computational Systems Engineering DBLP	2046-3405	https://www.inderscience.com/jhome.php?jcode=ijsyse	Editor in Chief
3	2023	Valentina E. Balas	Scientific and Technical Bulletin. Series: Electrotechnics, Electronics, Automatic Control and Computer Science Google Scholar	2165-7866	https://www.uav.ro/jour/index.php/stb-eeaccs	Editor in Chief

a. Activitati editoriale

Referent la reviste ISI

- 1.aci: Applied Computing and Informatics
- 2.ades: Advances in Engineering Software
- 3.agwat: Agricultural Water Management
- 4.apm: Applied Mathematical Modelling
- 5.asoc: Applied Soft Computing
- 6.atmosres: Atmospheric Research
- 7.bspc: Biomedical Signal Processing and Control
- 8.camwa: Computers and Mathematics with Applications
- 9.cmpb Computer Methods and Programs in Biomedicine
- 10.infphy Closed_Infrared Physics & Technology
- 11.cmig: Computerized Medical Imaging and Graphics
- 12.cnsns: Communications in Nonlinear Science and Numerical Simulation
- 13.compag: Computers and Electronics in Agriculture
- 14.conbuildmat: Construction & Building Materials

- 15.dib: Data in Brief
- 16.eaai: Engineering Applications of Artificial Intelligence
- 17.ecoleng: Ecological Engineering
- 18.egy: Energy
- 19.enb: Energy and Buildings
- 20.engstruct: Engineering Structures
- 21.flowmeasinst: Flow Measurement and Instrumentation
- 22.fss: Fuzzy Sets and Systems
- 23.hydrod: Journal of Hydrodynamics, Ser. B
- 24.ins: Information Sciences
- 25.isatrans: ISA Transactions
- 26.jfue: Fuel
- 27.jgeb: Journal of Genetic Engineering and Biotechnology
- 28.meas: Measurement
- 29.nahs: Nonlinear Analysis: Hybrid Systems
- 30.neucom: Neurocomputing
- 31.prem: Probabilistic Engineering Mechanics
- 32.robot: Robotics and Autonomous Systems
- 33.rser: Renewable & Sustainable Energy Reviews
- 34.safety: Safety Science
- 35.wm: Waste Management
- 36.ymsp: Mechanical Systems and Signal Processing
- 37. Journal of Intelligent and Fuzzy Systems

Recunoaștere națională și internațională
<p>a. Membru în comitetul științific al unor manifestări științifice (juriul unor evenimente expoziționale, curator expoziție)</p> <p>2023</p> <ol style="list-style-type: none"> 1. Conference Chair to 2023 International Symposium on Design Studies and Intelligence Engineering (DSIE2023), Hangzhou, China on October 28-29, 2023, http://www.dsieconf.org/committees.htm ISI 2. Honorary Chair to the 1st International Conference on Artificial Intelligence, Advanced Materials, and Mechatronics Systems (AIAMMS-2023), November 3-4, 2023, Jaipur, India, https://www.icrtcis.in/committees/

3. Member in Technical Program Committee to 27th IEEE International Conference on Intelligent Engineering Systems 2023 (INES 2023), Nairobi, Kenya, July 26-28, 2023, <http://www.ines-conf.org/ines-conf/2023committees.html> ISI
 4. Honorary Advisory Chair to **2nd International Conference on Innovations in Data Analytics (ICIDA 2023)**, organized by International Knowledge Research Foundation in collaboration with **Eminent College of Management and Technology(ECMT), West Bengal, India** 29th - 30th November, 2023, <http://icida.ikrf.in/committee.php> ISI
 5. Member in International Advisory Board to the IEEE 17th International Symposium on Applied Computational Intelligence and Informatics (SACI 2023), May 23-26, 2023 in Timisoara, Romania, <http://conf.uni-obuda.hu/saci2023/committees.html> ISI
 6. Member in Steering Committee to the 3rd International Conference on Ubiquitous Security 2023 (UbiSec-2023), 1-3 November, Exeter, UK, <https://hpcn.exeter.ac.uk/ubisec2023/committees.php> ISI
 7. General Co-Chair to The **6th edition of Conference on Cloud and Internet of Things 2023 (CIoT'23)**, March 20 to 22, 2023, Lisbon, Portugal, <https://ciot.dnac.org/organizing-committee/> ISI
 8. Member to International Program Committee to KES-2023, 27th Annual KES Conference, Athens, Greece, 6-8 September 2023, <http://kes2023.kesinternational.org/cmsIPdisplay.php> ISI
 9. Member in International Program Committee to the 24th International Conference on Control Systems and Computer Science (CSCS24), Bucharest, Romania, May 24 to 26, 2023, <https://cscs24.hpc.pub.ro/committees/> ISI
 10. General Co-Chair to 2nd International Conference on Intelligent Computing Systems and Applications (ICICSA-2023), Organized by National Institute of Technology Silchar, September 22-23, 2023, <http://icicsa.nits.ac.in/committee.html> ISI
 11. Member in International Technical Program Committee to The 2nd International Conference on Green Energy Conversion Systems September 29- October 1, 2023, Djerba, Tunisia, <https://sites.google.com/view/icgecs2023/committees>
 12. Member in International Advisory Board to the "1st International Conference on the Role of 'AI in Bio-Medical Translations' Research for the Health Care Industry (AIBTR-2023)
- G H Rasoni College of Engineering (An Autonomous institute Affiliated with RTM Nagpur University), India, 23rd September, 2023, <https://ghrce.raisoni.net/aibtr-2023/index.php#chair>
13. Member in International Program Committee to CISIM 2023, 22nd International Conference on Computer Information Systems and Industrial Management Applications, Tokyo, September 22-24, 2023, <https://cisim2023.wi.pb.edu.pl/wp-content/uploads/2022/10/CFP-CISIM-2023-Japan-UPDATED.pdf> ISI
 14. Member in Technical Program Committee to International Conference on Emerging Technology in Computing, Communication, and Electronics (ETCCE 2023), 23-24 December, Sanaa, Yemen, <https://ritechs.org/conferences/ETCCE2023>
 15. Membra in Program Committee to 2nd Edition of the International Congress on Sustainable Buildings and Cities 2023 Batiment & ville durables 2023 (BVD'23) May 11th & 12th, Fez, Morocco, <https://bvd23.upf.ac.ma/>
 16. Program Chair to **IMSE2023: 2023 International Conference on Intelligent Management and Software Engineering, September 8-10, Rome, Italy**, <http://confimse.org/organization.html>
 17. Program Chair to The International Conference on Connected Systems & Intelligence (CSI'23), [Kerala University of Digital Sciences, Innovation and Technology \(KUDSIT\)](http://www.kudsit.ac.in/), Trivandrum, India on August 31, September 1-2, 2023, <https://connected-systems.org/?q=node/10>

18. **Member in Advisory Committee to International Conference on Artificial Intelligence: Theory and**

Applications (AITA 2023), Organized in In-person and Online (Hybrid Mode) by IBS, Bangalore

Technically Sponsored by Soft Computing Research Society, August 11-12, 2023,

<http://scrs.in/conference/aita2023/committee/advisory-committee>

19. General Chair to The Global Summit on Digital Health of AI2SD Symposium Series, 24-26 May. 2023, Casablanca, Morocco, <https://dh.ai2sd-gss.com/committee/>
 20. Conference Chair to the International Conference **Design Innovation for 3C's -Compute, Communicate and Control (ICDI3C - 2023)**, Bangalore, India, 26-27 May 2023, <https://mvjce.edu.in/event/icdi3c2023>
 21. **Membra in Advisory Committee to International Conference on Recent Trends in Mathematics, Statistics, and Engineering** organized by School of Technology Management and Engineering SVKM's NMIMS (Deemed-to-be University) Indore, Madhya Pradesh, India, on December 22-23, 2023, <https://www.icrtmse.in/committee/advisory>
 22. **Technical Program Committee to 2023 International Conference on Computing, Networking, Telecommunications & Engineering Sciences Applications (CoNTESA) Dec. 14 - 15, 2023 Zagreb, Croatia**, , https://www.aconf.org/conf_194141.html
 23. **Technical Committee member to 1st DMIHER(DU) International Conference on "Artificial Intelligence in Education and Industry 4.0" (IDICAIEI)**, Conference id – 58380, 27th - 28th November 2023, Datta Meghe Institute of Higher Education and Research (Deemed to be University), Sawangi (Meghe), Wardha, Maharashtra, India.
[1st DMIHER\(DU\) International Conference on "Artificial Intelligence in Education and Industry 4.0" \(IDICAIEI\) Conference id - 58380](#)
- membru juriu – *Conferinta studenteasca BACStud, Oradea:*
<https://www.univagora.ro/conferinte/bacstud/bacstud2022/>

Premii și distincții

- Academia Română -
- ASAS, AOSR, altele asemenea – AOSR si AGIR

Academia Oamenilor de Știința din România - Bucuresti - Gala premiilor pentru anul 2021 - **Premiul**

"ȘTEFAN ODOBLEJA" și afilierea ca MEMBRU ASOCIAT AOSR, Secția XII -Știința și Tehnologia

Informației, în mai 2023

Academia Oamenilor de Știință din România



acordă

**Premiul „ȘTEFAN ODOBLEJA” 2021
Știința și Tehnologia Informației
D-nei Valentina Emilia BALAS
pentru lucrarea
Handbook of deep learning in biomedical engineering
techniques and applications
Editura Academic Press, 2021**

Președinte

Prof. univ. dr. ing. Adrian BADEA

A. B. A.

Data: 19 mai 2023



Membru în academii, asociații profesionale sau organizații profesionale de prestigiu

- Academia Română
- ASAS, AOSR, academii de ramură
- Conducere asociații/organizații profesionale internaționale
- Conducere asociații/organizații profesionale naționale
- **AGIR – presedinte filiala Arad**
- **SRAIT- presedinte filiala Arad**
- **AAIR - presedinte filiala Arad**
- **Vicepresedinte al Chapterului IEEE CIS Romania**

Membra in Asociatii si Societati Profesionale

Membră **IEEE Computational Intelligence Society** din **2004**.

Membră **IEEE Computer Society** din **2007**.

Membra **IEEE Women in Engineering** din **2008**.

Senior Member IEEE din **2007**.

Membră **WCI (Women in Computational Intelligence)** din **2006**, <http://www.ieee-cis.org/members/wci/> ; <http://smile.ee.ncku.edu.tw/WCI/index.html> ,

Membra **IEEE Communications Society** din **2003**.

Membra in **Emergent Technologies Technical Committee (ETTC)** of the Computational Intelligence Society (CIS) of the Institute of Electrical and Electronic Engineers, Inc. (IEEE), pentru Europa, din **2009**, <http://www.ieee-cis.org/technical/ettc/>.

Membra in **IEEE Systems, Man, and Cybernetics Society (SMC)** din 2009

Membra in **Soft Computing Technical Committee (SCTC)** of the Systems, Man, and Cybernetics Society (SMCS) of the Institute of Electrical and Electronic Engineers, Inc. (IEEE), din **2009**, http://www.ieceesmc.org/technicalcommittess/tc_sc.html

Membra in **IEEE Industrial Electronics Society (IES)** din 2009.

Membra in **IEEE Signal Processing Society (SPS)** din 2012.

Membra in **Fuzzy Systems Technical Committee (FSTC)** of Computational Intelligence Society of IEEE din **2011**, <http://ieee-cis.org/technical/fstc/>

Membra **EUSFLAT** (European Society for Fuzzy Logic and Technology) din **2007**, <http://www.eusflat.org/> , responsabila cu recrutarea din 2012.

Membra **NAFIPS** North American Fuzzy Information Processing Society din **2008**, <http://nafips.ece.ualberta.ca/>

Membra **ACM** – Association for Computer Machinery, USA, din **2008**, http://portal.acm.org/author_page.cfm?id=81350605749&coll=GUIDE&dl=GUIDE&trk=0&CFID=24132792&CFTOKEN=17272748

Membra a **Academiei de Stiinte din New York, NYAS** (The New York Academy of Sciences) din **2009**, <http://www.nyas.org/>

Membra a **Academiei de Stiințe din Kurdistan (KAS)** din 2009, <http://www.kurdistanacademy.info/admin/member/index/>

Membră a **Asociației Generale a Inginerilor din România**, Vicepreședintă a Filialei Arad din **2004**, http://www.agir.ro/comunitate.php?id_universitate=12&id_facultate=42

Membră a **Asociației Române de Instrumentație** – România - Șefă a Sucursalei Arad a AAIR din **2005**, <http://www.aair.org.ro/Structura.html>

Membra a Asociației de Robotica, Filiala Arad, din **2004**, <http://www.robotics-society.ro/filiale/arad.pdf>

Membra a **International Society on Multiple Criteria Decision Making MCDM** din **2009**, <http://www.mcdmsociety.org/>

Friend of **ACRUPO** (Association of Canadian Romanian University Professors, Ontario, Canada) din **2004**.

Membra a **IAENG** - International Association of Engineers, <http://www.iaeng.org/> , din **2009**, membership number :101636

Membra a comunitatii academice **International Congress for Global Science and Technology – ICGST, 2009**, Egipt, <http://www.icgst.com/> ,
<http://www.icgst-amc.com/institute/Community.aspx?InstId=3&aid=1293>

Membra a **Advisory Board for the G.H.R. Labs & Research Center**, Rasoni Group of Institutions (RGI), Nagpur, India, din 2010, http://ghrlabs.res.in/advisory_board.html

Membru afiliat **IFAC** (International Federation of Automatic Control) din 2009.
<http://www.ifac-control.org/participate/ifac-affiliates/>

Membra a **SIAM – Society for Industrial and Applied Mathematics**, din 2010,
<http://www.siam.org/>

Expert Tehnic Judiciar - Technical Expert of the Romanian Ministry of Justice, from 2010

Membra la **Research Gate Scientific Network**, din 2010,
https://www.researchgate.net/profile/Valentina_Emia_Balas/?dbw=true

Membra **SRAIT – Societatea Romana de Automatica si Informatica Tehnica**, Presedintele Filialei Arad a SRAIT din 2010, <http://srait.ecosys.pub.ro/>

Membru Asociat al Academiei Oamenilor de Stiinta din Romania din 2023

Academia
Oamenilor de Știință
din România



Academy
of Romanian
Scientists

Adă: Ilfov nr. 3, sector 5, 050044, București, ROMANIA, Cod Fiscal: 5091859
Tel. 00-4021/314.74.91; Web-site: www.aosr.ro, E-mail: secretariat.aosr@gmail.com

Academia Oamenilor de Știință
din România
Nr. înregistrare INTRARE/IEȘIRE
Nr. 735 Data 23.05.2023

Doamnei Prof. dr. Valentina Emilia Balas

Stimată doamnă Profesor,

Avem plăcerea să vă aducem la cunoștință decizia prin care Consiliul Științific al Academiei Oamenilor de Știință din România (AOSR), în ședința din data de 10 mai 2023, v-a conferit titlul de membru asociat al AOSR.

Conform Regulamentului, obligația membrilor este de a-și declara afilierea la AOSR pe toate lucrările publicate, menționând adresa următoare: **Academy of Romanian Scientists, Ilfov Street, Bucharest, Romania.**

Totodată, în pagina personală de Google Scholar se menționează drept ultim domeniu, în rândul doi al paginii, numele: **Academy of Romanian Scientists**, conform cu exemplul din linkul:

<https://scholar.google.com/citations?user=i3AkpgqAAAAJ>

De asemenea, vă rugăm să respectați toate prevederile Statutului AOSR.

Cu stimă,

Președinte AOSR

Prof. univ. dr. Ing. Adrian BADEA



Membra in Technical Committee la **IAMSIE** - International Association of Management Science & Industrial Engineering din 2010, Hong Kong, http://www.iamsie.org/index.php?option=com_content&view=article&id=2&Itemid=16

Membru fondator al **Asociei Romane de Inteligenta Artificiala - ARIA** – martie 2011, <http://www.aria-romania.org/en/about-aria/members>

Membra in Editorial Board la **SCICON** – The International Association of Science & Engineering Congress din august 2011, Bangladesh, <http://www.scicon.org/index.html>

Membra in Computational Intelligence in Control **CT 3.2** al **IFAC (International Federation of Automatic Control)** din 2011, <http://tc.ifac-control.org/3/2/members> 2010-2014

Senior Member in **IACSIT – International Association of Computer of Computer Science and Information Technology**, Singapore, No. 80343689 din 2011.

Mentor la Interscience Research Network, **IRNet**, India, www.interscience.ac.in, din 2012.

Elected **Joint Secretary of the Governing Council** of Forum for Interdisciplinary Mathematics (FIM), - A Multidisciplinary Academic Body, India, din 2013, <http://forum4interdisciplinarymathematics.org/Governing-Council.asp>
<http://share.pdfonline.com/56823f06637244819c01e38892f873/Elected%20Joint%20Secretary%20for%202013-14,%20KK%20Shukla.htm>

Elected **Vicepresident (Awards) of the International Fuzzy Systems Association Council – IFSA**, 2013- USA, <http://isdlab.ie.ntnu.edu.tw/ntust/ifsa/sources/council.html>

Member of **AIAA - American Institute of Aeronautics and Astronautics** - ID number **490278, Region VII, from October 2013, member in Intelligent Systems Technical Committee.**

Member of the **International Advisory Committee (IAC) of Kalasalingam University**, Anand Nagar, Krishnan Koil-626 126, Srivilliputtur (via), Tamil Nadu, India, from October 2013

Membra in Technical Committee on **Brain Machine Interface** de la IEEE Systems Man and Cybernetics Society din Noiembrie 2014, <http://www.ieeesmc.org/technical-activities/human-machine-systems/brain-machine-interface-systems>

Membra in Executive Council la **Asian Society for Research in Engineering Sciences**, din 2016, <http://www.asres.org/in/administrator.html>

Visiting Profesori ai UAV invitati la Seminarii Stiintifice, parteneri BPC, AGIR si Centrul de Cercetare Stiintifica "Sisteme Inteligente"

Nr. crt.	Titlul	Anul	Descrierea activitatii	Partener
1	Seminar stiintific: Prof. Yu-Chen Lin, Universitatea Feng Chia, Taichung, TAIWAN,	20 iunie 2023	Prezentare in cadrul Facultatii de	AGIR BPC Centrul de

	<i>"How Far Are We from a Fully Autonomous Driving World?"</i>		Inginerie	Cercetare Stiintifica "Sisteme Inteligente"
2	Seminar stiintific: Seminar stiintific: Prof. Yu-Chen Lin, Universitatea Feng Chia, Taichung, TAIWAN, <i>"Intelligent Electronic Suspension System of Evolutionary Driving"</i>	20 iunie 2023	Prezentare in cadrul Facultatii de Inginerie	AGIR BPC Centrul de Cercetare Stiintifica "Sisteme Inteligente"
3	Seminar stiintific: Prof. Nan-Kai Hsieh, Universitatea Feng Chia, Taichung, TAIWAN, <i>"The future of Smart CNC"</i>	20 iunie 2023	Prezentare in cadrul Facultatii de Inginerie	AGIR BPC Centrul de Cercetare Stiintifica "Sisteme Inteligente"
4	Seminar stiintific: Prof. Rajeeb Dey, National Institute of Technology Silchar, India, <i>"Artificial Pancreas System – A cyber Physical System Approach"</i>	8 noiembrie 2023	Prezentare in cadrul Facultatii de Inginerie	AGIR BPC Centrul de Cercetare Stiintifica "Sisteme Inteligente"
5	Seminar stiintific: Prof. Rajeeb Dey, National Institute of Technology Silchar, India, <i>"Stability of interpersonal relationships among dyads with delay emotion: System Theory Approach."</i>	8 noiembrie 2023	Prezentare in cadrul Facultatii de Inginerie si a Facultatii de Stiintele Educatiei	AGIR BPC Centrul de Cercetare Stiintifica "Sisteme Inteligente"
6	Seminar stiintific: Shahnaz Shahbazova – Professor in the Department of Digital Technologies and Applied Mathematics of the Azerbaijan State University of Economics: <i>"An Intelligent Method for Optimizing Calculations of Visual and Audio Information"</i>	15 noiembrie 2023	Prezentare in cadrul Facultatii de Inginerie si a Facultatii de Stiintele Educatiei	AGIR BPC Centrul de Cercetare Stiintifica "Sisteme Inteligente"
7	Seminar stiintific: Seminar stiintific: Shahnaz Shahbazova – Professor in the Department of Digital Technologies and Applied Mathematics of the Azerbaijan State University of Economics: <i>"Lotfi A. Zadeh's Biography"</i>	15 noiembrie 2023	Prezentare in cadrul Facultatii de Inginerie si a Facultatii de Stiintele	AGIR BPC Centrul de Cercetare Stiintifica

	<i>and Scientific Legacy: Soft Computing, Systems Theory, Decision and Control</i>		Educatiei	“Sisteme Inteligente”
8	Seminar stiintific: Mirvari Qazanfarli – Lecturer in the Department of Busuiness Administration of the Azerbaijan State University of Economics: <i>“Mathematical Modeling and its Application in Economic Processes”</i>	15 noiembrie 2023	Prezentare in cadrul Facultatii de Inginerie si a Facultatii de Stiintele Educatiei	AGIR BPC Centrul de Cercetare Stiintifica “Sisteme Inteligente”

27.01.2024

Prof.Univ.Habil.Dr.Ing. Valentina Emilia Balas