

Raport de cercetare

Centrul de Cercetare Sisteme Inteligente

Perioada ianuarie-decembrie 2024

1. Publicații-Cărți, Capitoile de carte, Jurnale ISI/BDI, Patente.

1.1 Carti editate in 2024 : 31

1. Proceedings of 5th International Ethical Hacking Conference

Leveraging AI to Law (eHaCON 2024)"

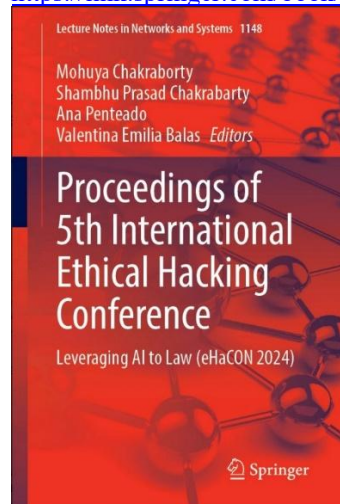
Editors: Mohuya Chakraborty - INDIA

Shambhu Prasad Chakrabarty - INDIA

Ana Penteadó - AUSTRALIA

Valentina Emilia Balas - ROMANIA

<https://link.springer.com/book/9789819784561>



2. The 13th International Conference on Information Systems and Advanced Technologies "ICISAT 2023". New Trends in Artificial Intelligence, Computing and Decision Making. Volume 1 and Volume 2

Editors: Mohamed Ridha Laouar - ALGERIA

[Valentina Emilia Balas](#) - ROMANIA

Vincenzo Piuri - ITALY

[Dana Rad](#) - ROMANIA

Zineb Touati Hamad - ALGERIA

Abbas Cheddad - SWEDEN

<https://link.springer.com/book/10.1007/978-3-031-60591-8>

<https://link.springer.com/book/10.1007/978-3-031-60594-9>

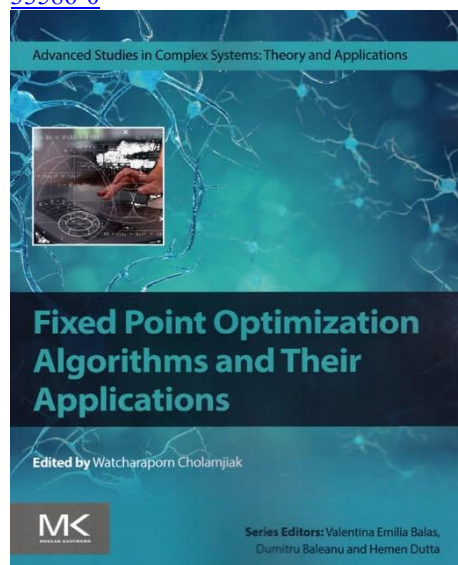


3. Book in Advanced Studies in Complex Systems: Theory and Applications series, published by Elsevier. This series is edited by Valentina Emilia Balas (Romania), Dumitru Baleanu (Lebanon), and Hemen Dutta (India). The latest book in the series is titled:

"Fixed Point Optimization Algorithms and Their Applications"

Author: Watcharaporn Cholamjiak - THAILAND

<https://shop.elsevier.com/books/fixed-point-optimization-algorithms-and-their-applications/unknown/978-0-443-33586-0>



4. Book in CRC PRESS: "Artificial Intelligence Using Federated Learning Fundamentals, Challenges, and Applications"

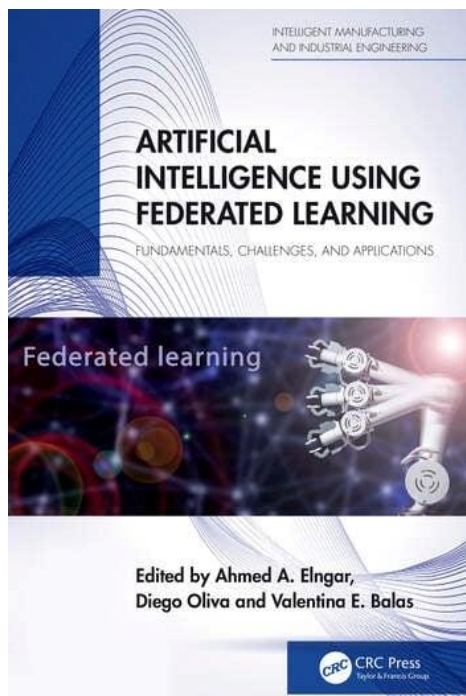
Edited by: Ahmed A Elngar - EGYPT

Diego Oliva - MEXICO

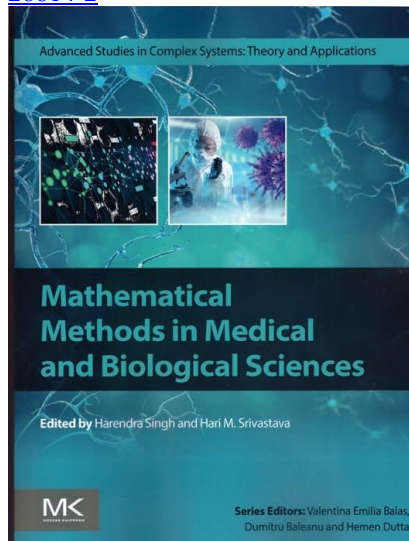
[Valentina Emilia Balas](#) - ROMANIA

Congratulations to my co-editors, authors and contributors.

www.routledge.com/9781032771649

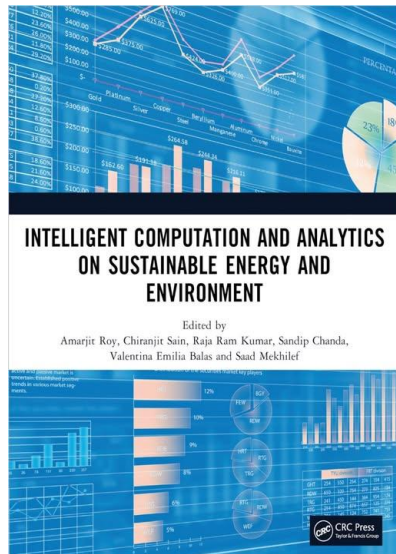


5. Book in Elsevier, *Advanced Studies in Complex Systems: Theory and Applications*, edited by Valentina Emilia Balas (Romania), Dumitru Baleanu (Lebanon), and Hemen Dutta (India).
Mathematical Methods in Medical and Biological Sciences
 Editors: Harendra Singh - INDIA
 Hari M Srivastava - CANADA
<https://shop.elsevier.com/books/mathematical-methods-in-medical-and-biological-sciences/singh/978-0-443-28814-2>

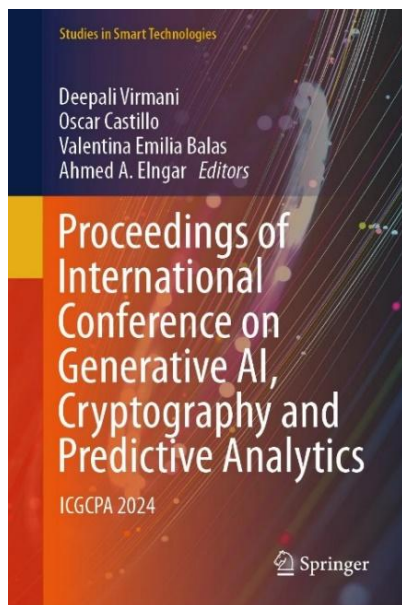


6. Book in CRC Press:
Intelligent Computation and Analytics on Sustainable Energy and Environment. Proceedings of the 1st International Conference on Intelligent Computation and Analytics on Sustainable Energy and Environment
 Guest Editors: Amarjit Roy - INDIA
 Chiranjit Sain - INDIA
 Raja Ram Kumar - INDIA
 Sandip Chanda - INDIA
[Valentina Emilia Balas](#) - ROMANIA
 Saad Mekhilef - AUSTRALIA

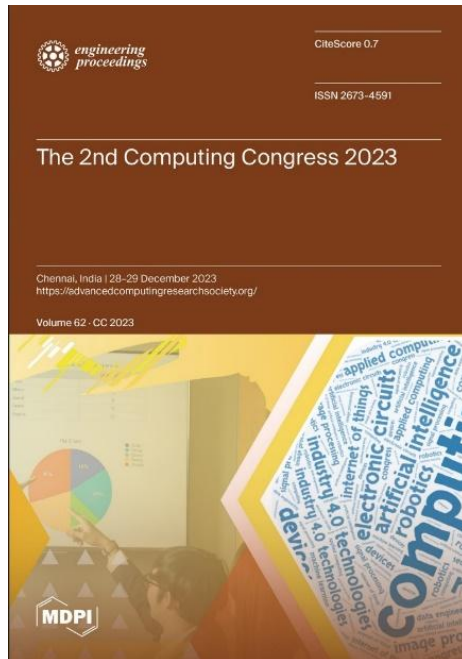
https://www.routledge.com/Intelligent-Computation-and-Analytics-on-Sustainable-Energy-and-Environment-Proceedings-of-the-1st-International-Conference-on-Intelligent-C/Roy-Sain-RamKumar-Chanda-EmiliaBalas-Mekhilef/p/book/9781032888903?fbclid=IwY2xjawHxKVdleHRuA2FbQIxMAABHSwLMvu1qBn0aLFrjcA87xIGCk061g5EgnfTPudyb_dnTS7_BVDihCAJVg_aem_SSm_cxaPvT9MCKe7p9QgfA



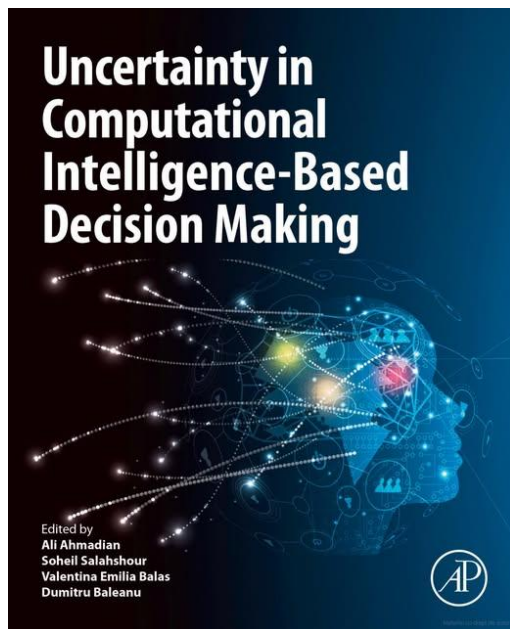
7. Conference Proceedings Book in Springer: " Proceedings of International Conference on Generative AI, Cryptography and Predictive Analytics. ICGCPA 2024"
Guest Editors: Deepali Virmani - INDIA
Oscar Castillo - MEXICO
[Valentina Emilia Balas](#) - ROMANIA
Ahmed A. Elngar - EGYPT
<https://link.springer.com/book/9789819791316>



8. Proceedings of the Second Computing Congress, held on December 28-29, 2023, in Chennai, Tamil Nadu, India, were published in Engineering Proceedings by MDPI.
Guest Editors:
Geetha Ganesan (INDIA)
Xiaochun Cheng (UK)
Valentina Emilia Balas (ROMANIA)
<https://www.mdpi.com/2673-4591/62/1>



9. Book in Elsevier: Uncertainty in Computational Intelligence-Based Decision Making
Editors: Ali Ahmadian - ITALY
Soheil Salahshour - TURKEY
[Valentina Emilia Balas](#) - ROMANIA
Dumitru Baleanu - LEBANON
<http://elsevier.com/.../uncert.../ahmadian/978-0-443-21475-2>

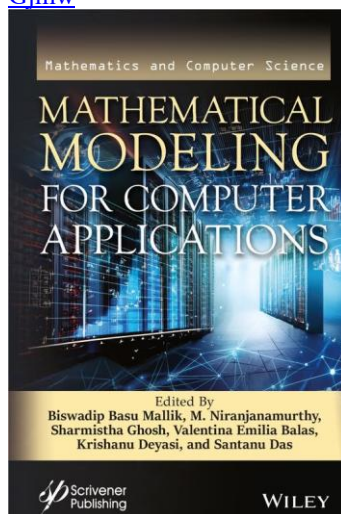


10. Book series published by Elsevier, Advanced Studies in Complex Systems: Theory and Applications. The series is edited by Valentina Emilia Balas (Romania), Dumitru Baleanu (Lebanon), and Hemen Dutta (India). The latest addition to the series is titled "Artificial Intelligence of Things (AIoT): Current and Future Trends"
Editors: Fadi Al-Turjman - TURKEY
Fahriye Altinay - TURKEY
Zehra Altinay Gazi - TURKEY
<https://shop.elsevier.com/books/artificial-intelligence-of-things-aiot/al-turjman/978-0-443-26482-5>



11. Book, published by John Wiley & Sons, Inc.,: "Mathematical Modeling for Computer Applications". Editors:
Biswadip Basu Mallik - INDIA
M. Niranjanamurthy - INDIA
Sharmistha Ghosh - INDIA
Valentina Emilia Balas - ROMANIA
Krishanu Deyasi - INDIA
Santanu Das - INDIA

https://onlinelibrary.wiley.com/doi/book/10.1002/9781394248438?fbclid=IwY2xjawHxLmlleHRuA2FlbQIxMAABHT7YssDuJDDAnSoyLcaeNuszR03KpWXAOjd0cVWAsBZT5pSVEe1YxlleFg_aem_C4ohxGl62QUSLk23ZyGjmw



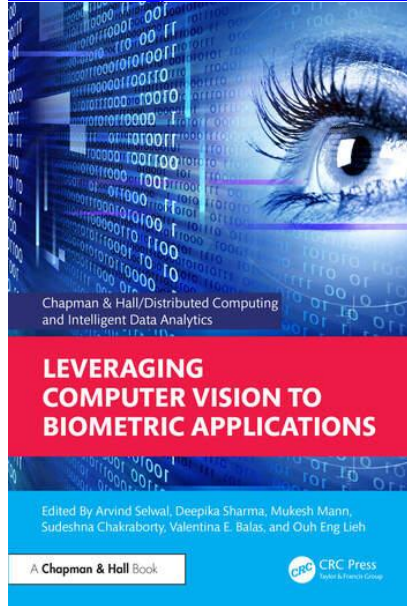
12. Book in CRC Press, Taylor & Francis Group: Leveraging Computer Vision to Biometric
Editors: Arvind Selwal -INDIA
Deepika Sharma - INDIA
Mukesh Mann - INDIA
Sudeshna Chakraborty - INDIA

[Valentina Emilia Balas](https://www.routledge.com/Leveraging-Computer-Vision-to-Biometric-Applications/Balas-Chakraborty-Lieh-Mann-Selwal-) - ROMANIA

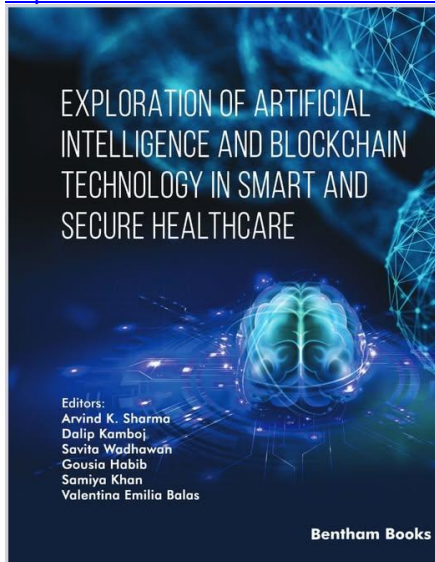
Ouh Eng Lieh - SINGAPORE

<https://www.routledge.com/Leveraging-Computer-Vision-to-Biometric-Applications/Balas-Chakraborty-Lieh-Mann-Selwal->

[Sharma/p/book/9781032614649?fbclid=IwY2xjawHxL2hleHRuA2FlbQIxMAABHQAOw7gIZMY0HXapY0TA Gm95oT-2K_ybrVY-XPR3d6mz4kuIBSUsgr-p9A_aem_HksMCYe5YdvmacFEsFtVSA](https://www.crcpress.com/Book/9781032614649?fbclid=IwY2xjawHxL2hleHRuA2FlbQIxMAABHQAOw7gIZMY0HXapY0TA Gm95oT-2K_ybrVY-XPR3d6mz4kuIBSUsgr-p9A_aem_HksMCYe5YdvmacFEsFtVSA)

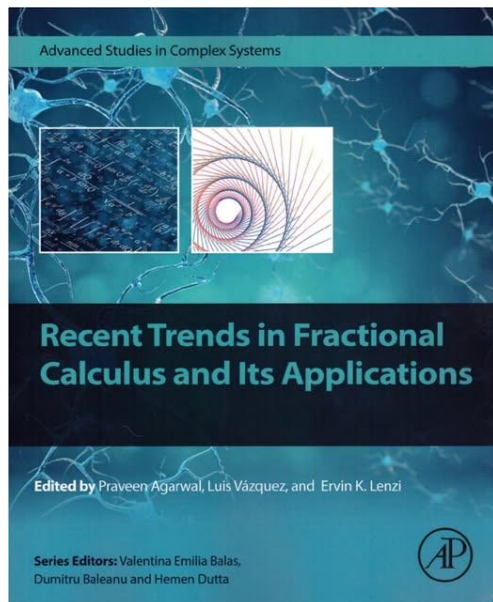


13. Book in Bentham Science Publishers (UAE): Series Title: Advances in Computing Communications and Informatics "Exploration of Artificial Intelligence and Blockchain Technology in Smart and Secure Healthcare", Volume 7
Editors: Arvind K. Sharma - INDIA
Dalip Kamboj - INDIA
Savita Wadhawan - INDIA
Gousia Habib - INDIA
Samiya Khan - UK
[Valentina Emilia Balas - ROMANIA](https://benthambooks.com/book/9789815165432)
<https://benthambooks.com/book/9789815165432>



14. Book published by Elsevier, Advanced Studies in Complex Systems: Theory and Applications. The series is edited by Valentina Emilia Balas (Romania), Dumitru Baleanu (Lebanon), and Hemen Dutta (India). The latest addition to the series is titled "Recent Trends in Fractional Calculus and Its Applications."
Editors: Praveen Agarwal - INDIA
Luis Vazquez - SPAIN
Ervin K. Lenzi - BRAZIL

<https://shop.elsevier.com/books/recent-trends-in-fractional-calculus-and-its-applications/agarwal/978-0-443-18505-2>



15. Book published by SPRINGER and dedicated to Academician FLORIN GHEORGHE FILIP, a distinguished figure in the field of science and engineering. This book is dedicated to his remarkable contributions and achievements, highlighting his groundbreaking work and the impact he has had in both academia and industry.

Academician Florin Filip continues to be a pioneer in his field, inspiring countless students, researchers, and professionals with his innovative ideas and dedication to advancing knowledge.

The book includes contributions from colleagues, students, and experts who have had and continue to have the privilege of working with Academician Filip.

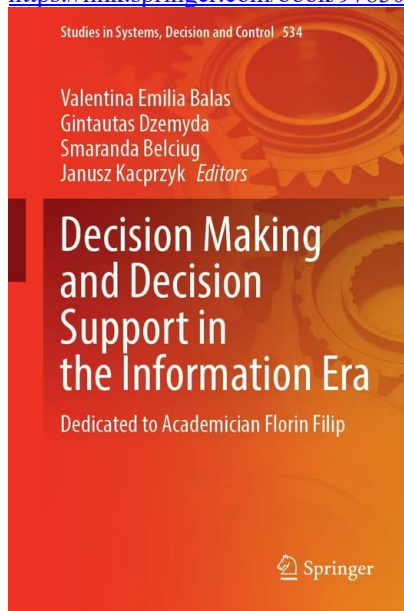
Editors: [Valentina Emilia Balas](#) - ROMANIA

[Gintautas Dzemyda](#) - LITHUANIA

Smaranda Belciug - ROMANIA

[Janusz Kacprzyk](#) - POLAND

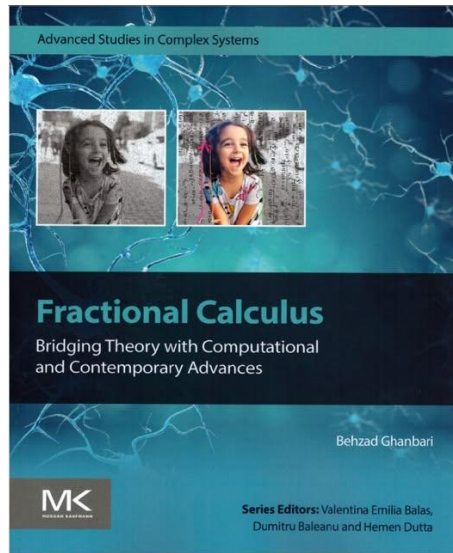
<https://link.springer.com/book/9783031621574>



16. Book in ELSEVIER - Advanced Studies in Complex Systems: Theory and Applications. The series is edited by Valentina Emilia Balas (Romania), Dumitru Baleanu (Lebanon), and Hemen Dutta (India).

The latest addition is titled "Fractional Calculus. Bridging Theory with Computational and Contemporary Advances".

<https://shop.elsevier.com/books/fractional-calculus/ghanbari/978-0-443-31500-8>



17. Book in Springer: "Proceedings of the International Conference on Internet of Everything and Quantum Information Processing"

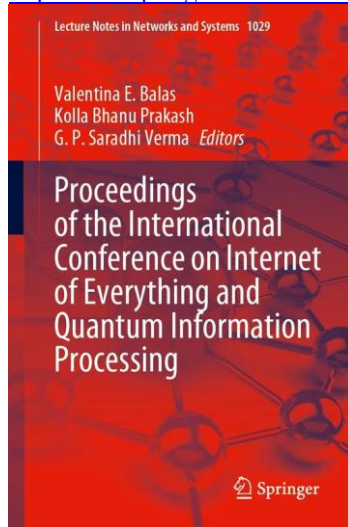
Editors:

[Valentina Emilia Balas](#) - ROMANIA

Kolla Bhanu Prakash - INDIA

G. P. Saradhi Verma - INDIA

<https://link.springer.com/book/9783031619281>



18. Book in CRC Press: "Technology Innovation Pillars for Industry 4.0 Challenges, Improvements, and Case Studies"

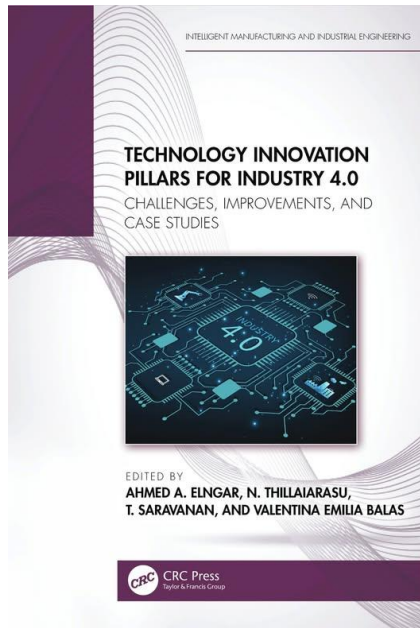
Editors: Ahmed A. Elngar - EGYPT

N. Thillaiarasu - INDIA

T. Saravanan - INDIA

[Valentina Emilia Balas](#) - ROMANIA

https://www.taylorfrancis.com/books/edit/10.1201/9781003388241/technology-innovation-pillars-industry-4-0-ahmed-elngar-thillaiarasu-saravanan-valentina-emilia-balas?fbclid=IwY2xjawHxM7lleHRuA2FlbQIxMAABHefTZlmfUwE2g0y7kRslV5fCW9ipBMLo5sjqSWytUkBSNbcecpPuoarqcg_aem_3RnCrCxHCu4QsyXu1GB34Q



19. Book in Springer: "Intelligent Computing Systems and Applications: Proceedings of the 2nd International Conference, ICICSA 2023"

Editors:

Sivaji Bandyopadhyay - India

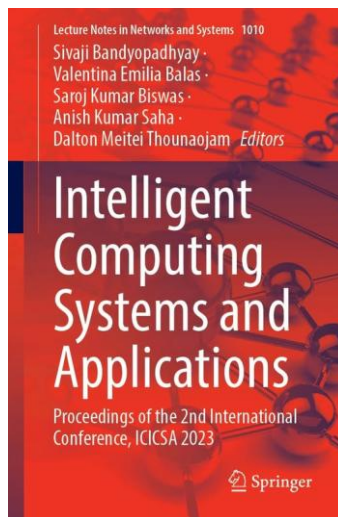
Valentina Emilia Balas - Romania

Saroj Kumar Biswas - India

Anish Kumar Saha - India

Dalton Meitei Thounaojam - India

<https://link.springer.com/book/9789819754113>



20. Book in Springer - Proceedings of the 13th International Conference on Information Systems and Advanced Technologies (ICISAT 2023).

Editors:

Mohamed Ridda Laouar - ALGERIA

Valentina Emilia Balas - ROMANIA

Vincenzo Piuri - ITALY

Dana Rad - ROMANIA

Zineb Touati Hamad - ALGERIA

Abbas Cheddad - SWEDEN

<https://link.springer.com/book/9783031605901>



21. Book in Elsevier "Machine Learning Models and Architectures for Biomedical Signal Processing"

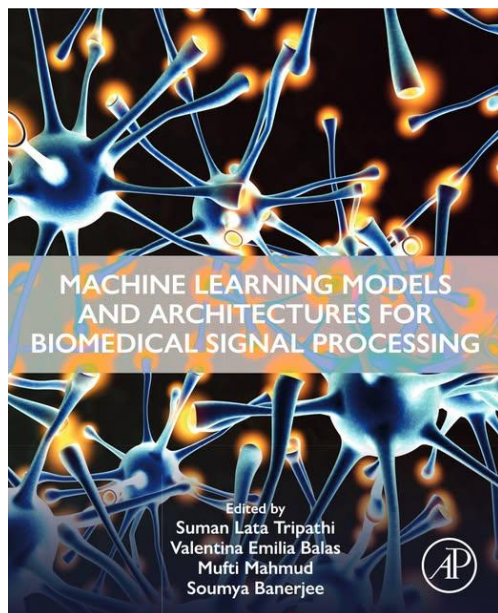
Editors: Suman Lata Tripathi - INDIA

Valentina Emilia Balas - ROMANIA

Mufti Mahmud - UK

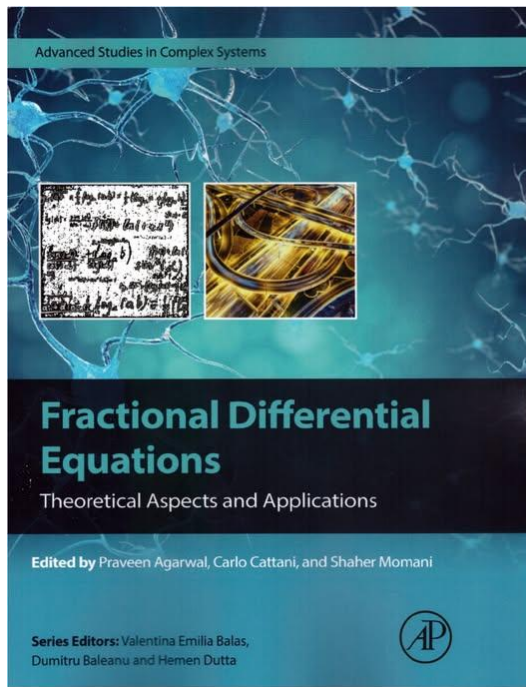
Soumya Banerjee - FRANCE

<https://shop.elsevier.com/books/machine-learning-models-and-architectures-for-biomedical-signal-processing/tripathi/978-0-443-22158-3>

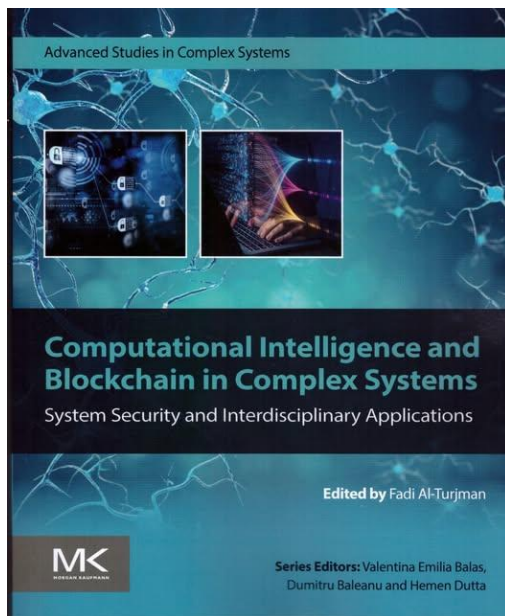


22. Book in ELSEVIER - Advanced Studies in Complex Systems: Theory and Applications. The series is edited by Valentina Emilia Balas (Romania), Dumitru Baleanu (Lebanon), and Hemen Dutta (India). The latest addition is titled "Fractional Differential Equations: Theoretical Aspects and Applications". Guest Editors: Praveen Agarwal (India), Carlo Cattani (Italy), Shaher Momani (Jordan).

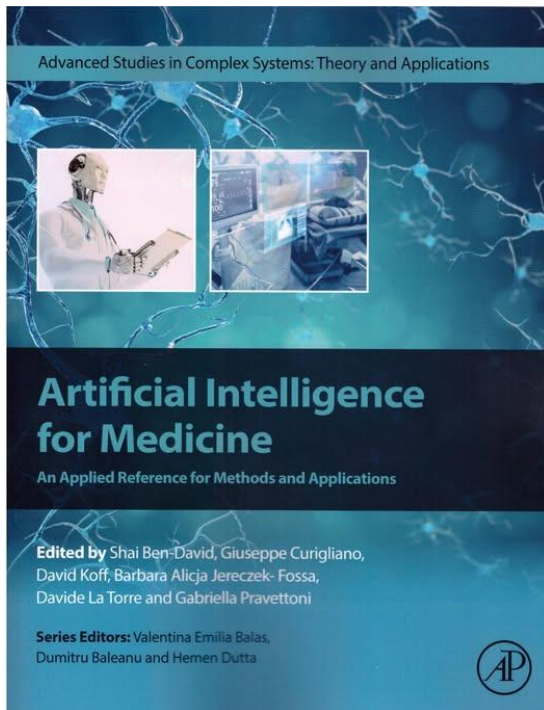
<https://shop.elsevier.com/books/fractional-differential-equations/agarwal/978-0-443-15423-2>



23. Book in ELSEVIER - Advanced Studies in Complex Systems: Theory and Applications: "Computational Intelligence and Blockchain in Complex Systems: System Security and Interdisciplinary Applications".
Guest Editor: Fadi Al-Turjman (Turkey).
<https://shop.elsevier.com/books/computational-intelligence-and-blockchain-in-complex-systems/al-turjman/978-0-443-13268-1>



24. Book in ELSEVIER - Advanced Studies in Complex Systems: Theory and Applications: "Artificial Intelligence for Medicine An Applied Reference for Methods and Applications"
Guest Editors: Shai Ben-David (Canada), Giuseppe Curigliano (Italy), David Koff (Canada), Barbara Alicja Jereczek-Fossa (Italy), Davide La Torre (France), Gabriella Pravettoni (Italy).



25. Two books in Springer:

"International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2023),
Advanced Intelligent Systems on Digital Health Technology, Volume 2"

<https://link.springer.com/book/10.1007/978-3-031-52385-4>

and

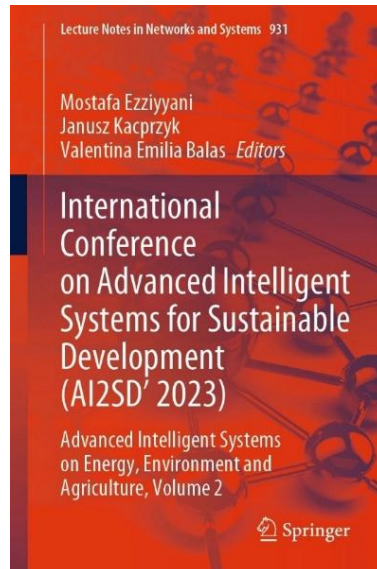
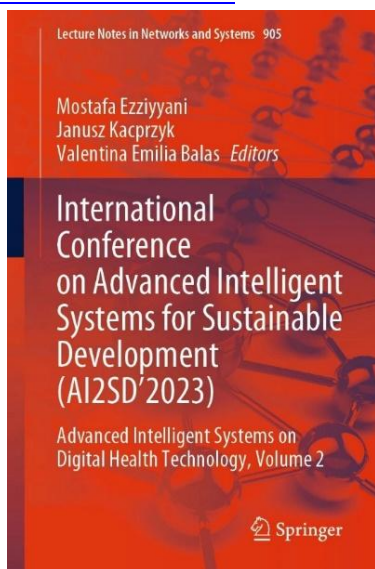
"International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2023),
Advanced Intelligent Systems on Energy, Environment and Agriculture, Volume 2"

<https://link.springer.com/book/10.1007/978-3-031-54288-6>

Editors: Mostafa Ezziyyani - MOROCCO

Janusz Kacprzyk - POLAND

[Valentina Emilia Balas](#) - ROMANIA



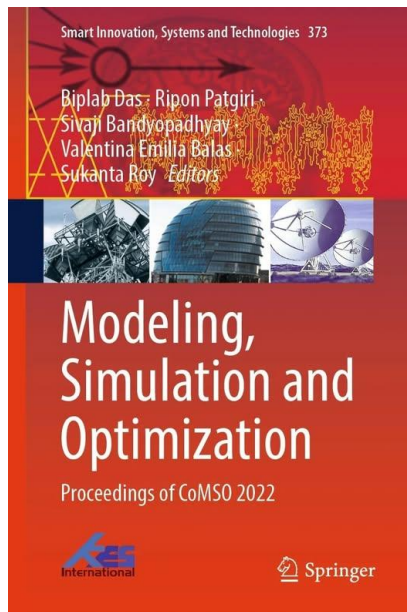
26. Book in Springer: "Modeling, Simulation and Optimization. Proceedings of CoMSO 2022"

Editors: Biplab Das - INDIA

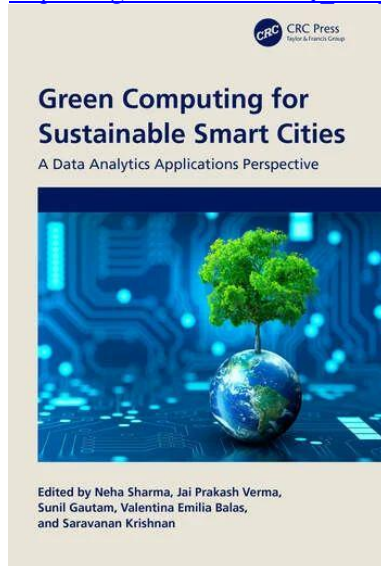
Ripon Patgiri - INDIA

Sivaji Bandyopadhyay - INDIA

[Valentina Emilia Balas](#) - ROMANIA
Sukanta Roy - MALAYSIA
<https://link.springer.com/book/10.1007/978-981-99-6866-4>

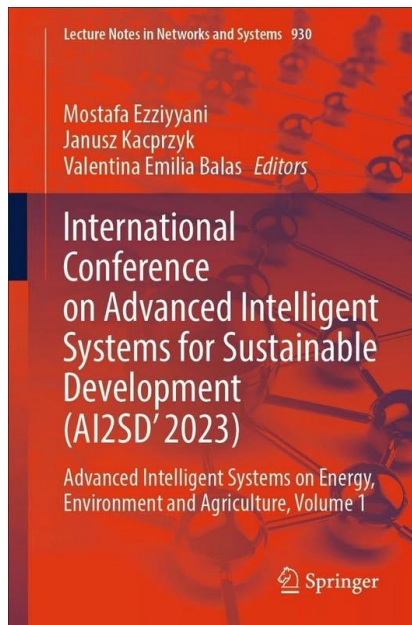


27. Book in CRC Press: "Green Computing for Sustainable Smart Cities A Data Analytics Applications Perspective"
Editors:
Neha Sharma - INDIA
Jai Prakash Verma - INDIA
Sunil Gautam - INDIA
[Valentina Emilia Balas](#) - ROMANIA
Saravanan Krishnan - INDIA
https://www.taylorfrancis.com/books/edit/10.1201/9781003388814/green-computing-sustainable-smart-cities-neh-sharma-sunil-gautam-jai-prakash-verma-valentina-emilia-balas-saravanan-krishnan?fbclid=IwY2xjawHxQABLeHRuA2FlbQlXMAABHYkwWUUDjAz_C71tvOWtY_HzNRKHTHLJnIdzFJqhhzhagw6dLTawLFSFQ_aem_PULjWxxeUE-KRmUJ5bk-Yg

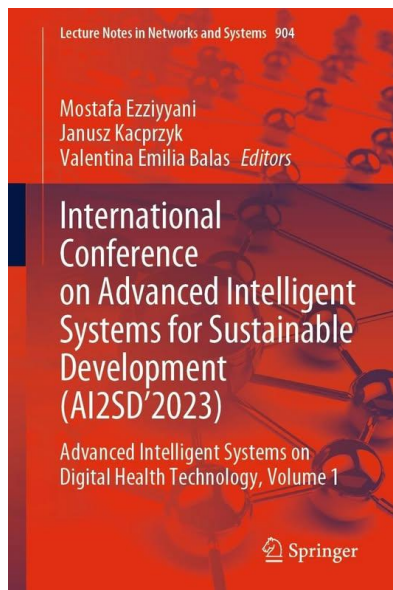


28. Book in Springer: " International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2023).
Advanced Intelligent Systems on Energy, Environment and Agriculture, Volume 1"
Editors: Mostafa Ezziyani - MOROCCO

Janusz Kacprzyk - POLAND
Valentina Emilia Balas - ROMANIA
<https://link.springer.com/book/10.1007/978-3-031-54318-0>

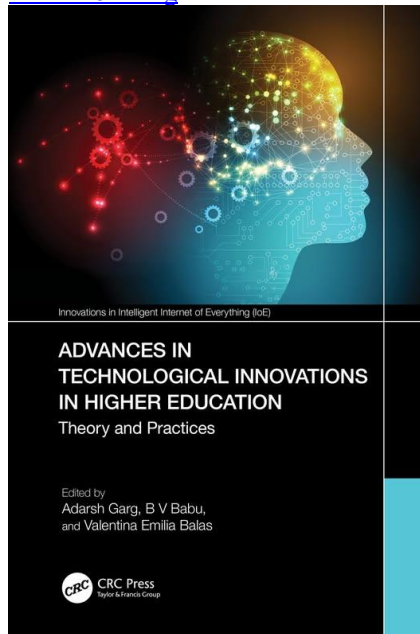


29. Volume in Springer:
"International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2023).
Advanced Intelligent Systems on Digital Health Technology, Volume 1"
Editors: Mostafa Ezziyyani - MOROCCO
[Janusz Kacprzyk](#) - POLAND
[Valentina Emilia Balas](#) - ROMANIA
<https://link.springer.com/book/10.1007/978-3-031-52388-5>

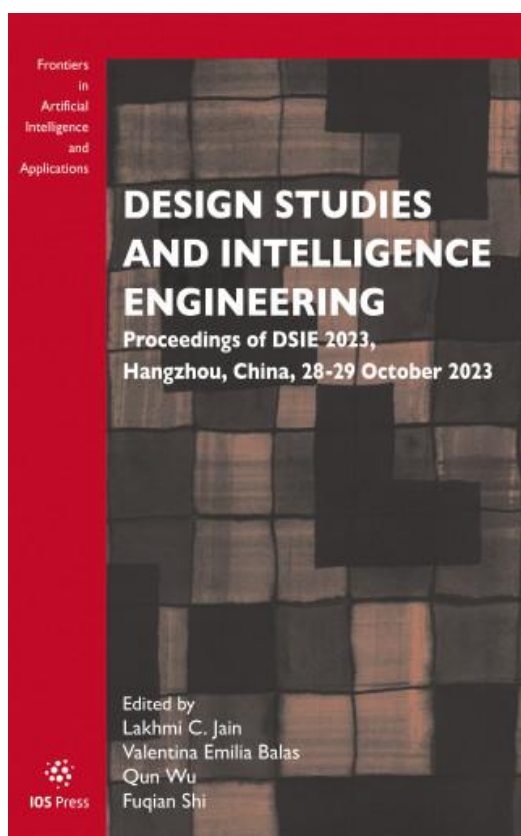


30. Book in CRC Press, "Advances in Technological Innovations in Higher Education Theory and Practices"
Editors: Adarsh Garg - INDIA
B V Babu - INDIA
<https://www.routledge.com/Advances-in-Technological-Innovations-in-Higher-Education-Theory-and-Practices/Garg-Babu->

[Balas/p/book/9781032453804?_ga=284776681.1704758400&fbclid=IwY2xjawHxQM9leHRuA2FlbQIxMAABHYkwWUUDjAz_C71tvOWtY_HzNRKHTHLJnldzFJqhhzhagw6dLTawLFSFQ_aem_PULjWxxeUE-KRmUJ5bk-Yg](https://www.crcpress.com/book/9781032453804?_ga=284776681.1704758400&fbclid=IwY2xjawHxQM9leHRuA2FlbQIxMAABHYkwWUUDjAz_C71tvOWtY_HzNRKHTHLJnldzFJqhhzhagw6dLTawLFSFQ_aem_PULjWxxeUE-KRmUJ5bk-Yg)



31. Book in IOS Press: "Design Studies and Intelligence Engineering. Proceedings of DSIE 2023, Hangzhou, China, 28-29 October 2023"
Editors: Lakhmi C. Jain - AUSTRALIA
[Valentina Emilia Balas](#) - ROMANIA
Qun Wu - CHINA
Fuqian Shi - USA
https://www.iospress.com/catalog/books/design-studies-and-intelligence-engineering-1?fbclid=IwY2xjawHxQVZleHRuA2FlbQIxMAABHR8gqvJYh6xbF2IppseE-hHSYhOGSlacUJ53MVKILluGwvlWdwasnXV5_w_aem_jItSFYGORS6PJPrLKxnhSg



1.2 Articole publicate în reviste indexate/cotate ISI 2024

Nr. crt.	Autori	Titlul articolului	Revista	Volumul/ Numărul	Pag
1	Srikanth Bondalapati, Rajeeb Dey, Cornel Barna, Valentina Emilia Balas	<i>H_∞- Static Output Feedback based Load Frequency Control of an Interconnected Power System with Regional Pole Placement</i> https://doi.org/10.15837/ijccc.2024.6.6857	International Journal of Computers Communications & Control, ISSN 1841-9836 Q3, IF=2	Vol 19, Issue 6, 2024 Articol 6857	1-15
2	Mihaela Popa, Marius M. Balas, Ramona Lile, Valentina E. Balas	<i>The Three-tank Watergy Configuration</i> https://doi.org/10.15837/ijccc.2024.1.6418	International Journal of Computers Communications & Control ISSN 1841-9836 Q3, IF=2	Vol. 19, Issue 1, 2024 Articol 6418	1-8
3	Dana RAD, Csaba KISS, Nicolae PARASCHIV, Valentina Emilia BALAS	<i>Automated Comparative Predictive Analysis of Deception Detection in Convicted Offenders Using Polygraph with</i>	Studies in Informatics and Control ISSN 1220-1766 Q4, IF=1,2	Vol. 333, Issue 3 2024	39-48

		<i>Random Forest, Support Vector Machine, and Artificial Neural Network Models</i> https://doi.org/10.24846/v33i3v202404			
4	<u>Rad, D.</u> , <u>Paraschiv, N.</u> , <u>Kiss, C.</u> , <u>Balas, VE.</u> , <u>Barna, C</u>	<u>Physiological Reactions Profiling in Polygraph Testing: Insights from Fuzzy C-Means Clustering Analysis</u>	ACTA POLYTECHNICA HUNGARICA ISSN 1785-8860 Q2, IF=1,4	Vol 21, Issue 10 2024	365-377
5	<u>Subramaniam, B.</u> , <u>Krishnan, S.</u> , <u>Radhakrishnan, S.</u> , <u>Balas, VE</u> (autor corespondent)	<u>Fusion of Finger Vein Images, at Score Level, for Personal Authentication</u>	ACTA POLYTECHNICA HUNGARICA ISSN 1785-8860 Q2, IF=1,4	Vol. 21, Issue 6 2024	53-68
6	<u>Margret, IN.</u> , <u>Rajakumar, K.</u> , <u>Arulalan, KV.</u> , <u>Manikandan, S.</u> , <u>Balas, VE</u>	<i>Statistical Insights Into Machine Learning-Based Box Models for Pregnancy Care and Maternal Mortality Reduction: A Literature Survey,</i> DOI 10.1109/ACCESS.2024.3464249	IEEE ACCESS ISSN 2169-3536 Q2, IF=3,4	Volume 12	136435-136435

1.3 Reviste BDI

Nr. crt.	Autori	Titlul articolului	Revista	Volumul/ Numărul	Pag
1	<u>P. Naga Srinivasu,</u> <u>G. Srinivas,</u> <u>T. Srinivasa Rao</u> and <u>Valentina E. Balas</u>	A novel approach for assessing the damaged region in MRI through improvised GA and SGO	International Journal of Advanced Intelligence Paradigms ISSN 1755-0386 SCOPUS	Volume 29, Issue 4 2024	348-363

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1.4. Volumele unor conferințe științifice internaționale cu ISBN/ISSN

Nr. crt.	Autori	Titlul articolului	Conferinta	Volumul/ Numărul	Pag.
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1	<u>C Abineza, VE Balas, P Nsengiyumva</u>	A Shap Interpreter-Based Explainable Decision Support System for COPD Exacerbation Prediction	Proceedings of the Computational Methods in Systems and Software CoMeSySo 2023 SCOPUS, Springer	Lecture Notes in Networks and Systems ((LNNS,volume 935)) ISSN 2367-3370	447-458
2	Anamika Anamika, Bidipta Dutta, Rajeeb Dey, Anirudh Nath, Tania Bogdana Gavrilă, Valentina E Balas	Adaptive Control Design for Blood Glucose Regulation of T1DM patient: An LMI framework	28th International Conference on System Theory, Control and Computing (ICSTCC), 10-12 October, 2024, Sinaia, Romania, IEEE, SCOPUS	DOI: 10.1109/ICSTCC629.12.2024.10744700 IEEEExplore	57-62
3	B.T. Gavrilă, V.E. Balas, M.M. Balas	A Review on artificial pancreas mathematical models	11th International Conference on Applied Sciences (ICAS 2023), Hunedoara SCOPUS	Journal of Physics: Conference Series 2714, 012005 IOP Publishing doi:10.1088/1742-6596/2714/1/012005	1-11
4	Mihaela Popa, Valentina E. Balas	THE NECESSITY OF ROOFTOP GREENHOUSES FOR IMPROVING URBAN AIR QUALITY AND TEMPERATURE REGULATION DOI: 10.46793/IJZS.24.401P	XIV International Conference on Industrial Engineering and Environmental Protection IJZS 2024 Technical Faculty "Mihajlo Pupin" Zrenjanin, October 3-4, 2024, Zrenjanin, Serbia	XIV International Conference on Industrial Engineering and Environmental Protection IJZS 2024 Technical Faculty "Mihajlo Pupin" Zrenjanin, October 3-4, 2024, Zrenjanin, Serbia ISBN 978-86-7672-376-8	401-407
5	Anca-Adriana Lasc-Petcut, Valentina E. Balas, Flavius Petcut	ANALYSIS OF A RESIDENTIAL PHOTOVOLTAIC SYSTEM DOI: 10.46793/IJZS.24.198PL	XIV International Conference on Industrial Engineering and Environmental Protection IJZS 2024 Technical Faculty "Mihajlo Pupin" Zrenjanin, October 3-4, 2024, Zrenjanin, Serbia	XIV International Conference on Industrial Engineering and Environmental Protection IJZS 2024 Technical Faculty "Mihajlo Pupin" Zrenjanin, October 3-4, 2024, Zrenjanin, Serbia ISBN 978-86-7672-376-8	198-205
6	Mihaela Popa, Valentina E. Balas, Dana Rad	EXPLORING THE EVOLUTION OF CARBON OFFSET RESEARCH: A BIBLIOMETRIC PERSPECTIVE ON SUSTAINABLE PRACTICES	2nd International Conference on Computer Science, Information Technology & AI (CSITAI 2024), December 28 ~ 29, 2024, Dubai, UAE	David C. Wyld et al. (Eds): CSITAI, MATHCS, ITCAU, COMSAP, ACINT - 2024 2024. - CS & IT - CSCP 2024 Volume Editors : David C. Wyld,	13-25

				<p>Dhinaharan Nagamalai (Eds) ISBN : 978-1-923107-47-2</p> <p>Conference Proceedings Computer Science & Information Technology (CS & IT) ISSN : 2231 - 5403 Volume 14, Number 25, November 2024</p> <p>DOI: 10.5121/csit.2024.142502</p>	
7	<p>Daniel Alexuta, Valentina E. Balas, Marius M. Balas</p>	<p>A SYSTEMATIC REVIEW OF AQUAPONICS: ADVANCES IN AUTOMATION AND SUSTAINABLE AGRICULTURE</p>	<p>2nd International Conference on Computer Science, Information Technology & AI (CSITAI 2024), December 28 ~ 29, 2024, Dubai, UAE</p>	<p>David C. Wyld et al. (Eds): CSITAI, MATHCS, ITCAU, COMSAP, ACINT - 2024 2024. - CS & IT - CSCP 2024 Volume Editors : David C. Wyld, Dhinaharan Nagamalai (Eds) ISBN : 978-1-923107-47-2</p> <p>Conference Proceedings Computer Science & Information Technology (CS & IT) ISSN : 2231 - 5403 Volume 14, Number 25, November 2024</p> <p>DOI: 10.5121/csit.2024.142503</p>	27-44

1.5. Conferinte AOSR

- Valentina E. Balas, Marius Balas, Mihaela Popa, Daniel Alexuta, *The Rooftop Greenhouses as a Topic in Systems Engineering : Objectives, Models, Control* CONFERINȚA ȘTIINȚIFICĂ DE PRIMĂVARĂ a AOSR, 2024, BUCUREȘTI, 24-25 mai 2024, Secțiunea Știința și Tehnologia Informației, ISSN ISSN 2601 – 5102, Secțiunea Știința și Tehnologia Informației, Lucrarea 7, Pag. 18
https://www.aosr.ro/wp-content/uploads/2024/05/VOLUM-DE-REZUMATE-PRIMAVARA-2024-SITE-1.pdf?fbclid=IwY2xjawHxOOlleHRuA2F1bQlXMAABHaVkPI3uJ7BIyfogVaFg3OXqA1lEhq0ofsCsEkQpYuRt_jwRvm5RbWIHvw_aem_s6zylm9QebzbRbNAEFE3HA

3. Valentina E. Balas, Marius M. Balas, *Intelligent Transportation by Constant Time to Collision Criterion*, CONFERINȚA ȘTIINȚIFICĂ DE TOAMNĂ a AOȘR, 2024, IAȘI 23-24 septembrie 2024, Tema: ROLUL INTELIGENȚEI ARTIFICIALE ÎN DEZVOLTAREA DURABILĂ A ROMÂNIEI, VOLUM DE REZUMATE, Volume 18, issue 2, 2024, ISSN 2601 – 5102, Sectiunea Știința și Tehnologia Informației, Lucrarea 11, Pag. 15
https://www.aosr.ro/wp-content/uploads/2024/09/VOLUM-DE-REZUMATE-toamna-IASI-2024-FINAL-18sept2024.pdf?fbclid=IwY2xjawHxLdJleHRuA2FlbQIxMAABHd9ZIOSnxLMPbZkt8QCrk8whu_U9EOJGaZQOVovVpR9cozblqEjIE7ZOxA_aem_n_5VUB3YXGbtPdytKeEXcQ

1.6. Capitoale de carte

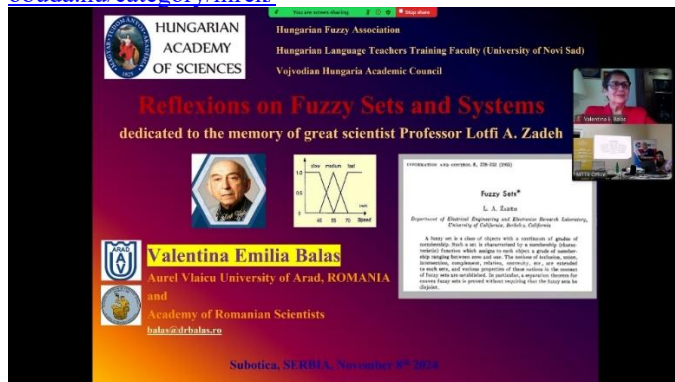
Nr. crt.	Autor/Autori	Titlul cărții	Titlul capitolului	Punctaj	Editura
1	<u>Prisilla Jayanthi Gandam, Xi Chen, Muralikrishna Iyyanki, Utku Kose, Valentina Emilia Balas</u>	<u>Lytras, M.D., Alkhaldi, A. and Malik, S. (Ed.) The Emerald Handbook of Smart Cities in the Gulf Region: Innovation, Development, Transformation, and Prosperity for Vision 2040, Emerald Publishing Limited, Leeds, pp. 345-362.</u> https://doi.org/10.1108/978-1-83608-292-720241021	United Arab Emirates: Integration of Smart Technology – An Innovative Solution for Climate Change Mitigation 18 pag.	9	Emerald
2	Dana Rad, Valentina Emilia Balas, Adela Redeuș, Csaba Kiss, Gavril Rad	Balas, V.E., Dzemyda, G., Belciug, S., Kacprzyk, J. (eds) Decision Making and Decision Support in the Information Era. Studies in Systems, Decision and Control, vol 534. Springer, Cham. Pag. 213-234 https://doi.org/10.1007/978-3-031-62158-1_13 ISBN 978-3-031-62157-4	An RBF Neural Network Approach to Predict Preschool Teachers Integrative-Qualitative Intentional Behavior Based on Marzano’s Model of Teaching Effectiveness 22 pag.	11	Springer

1.7 Prezentă activă în viața științifică națională și internațională

Invitat cu conferință în plen

- Keynote Speakers to 2024 International Symposium on Design Studies and Intelligence Engineering (DSIE2024), December 21-22, 2024, Hangzhou, CHINA, cu prezentarea: ”*Intelligent Building-Integrated Greenhouses: A Framework for Sustainable Urban Agriculture*”, <http://www.dsieconf.org/keynotes.htm>

- Invited Speaker in the program, which is part of the Celebrating Hungarian Science Month series, dedicated to our esteemed mentor, Professor Lotfi Zadeh. The program, held in Subotica, Serbia, was organized by the Hungarian Academy of Sciences, the Hungarian Fuzzy Association, the Hungarian Language Teachers Training Faculty (University of Novi Sad, Serbia), and the Vojvodian Hungarian Academic Council cu prezentarea “*Reflexions on Fuzzy Sets and Systems*” dedicated to the memory of great scientist Professor Lotfi A. Zadeh. <https://bgk.uni-obuda.hu/category/hirek/>



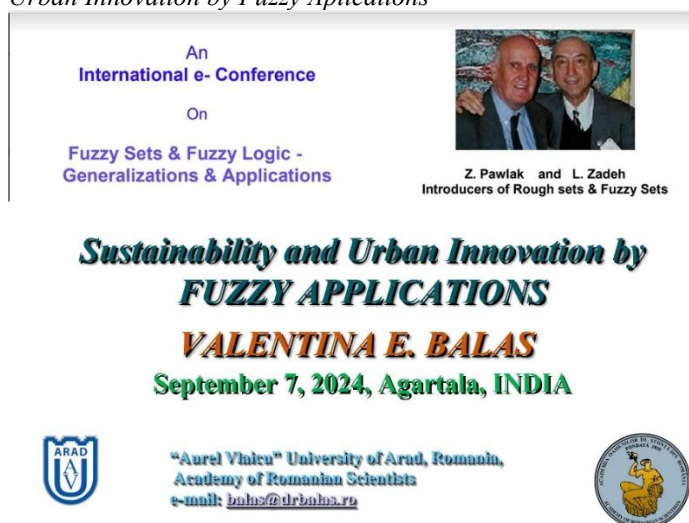
- Invited Speakers to the 9th World Conference on Soft Computing (9th WConSC'24), held in Baku, Azerbaijan, on September 25-27, 2024, dedicated to the research heritage of our dear mentor, Professor Lotfi A. Zadeh cu prezentarea: “*Intelligent Rooftop Greenhouses as Systems Engineering Subject: Objectives,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



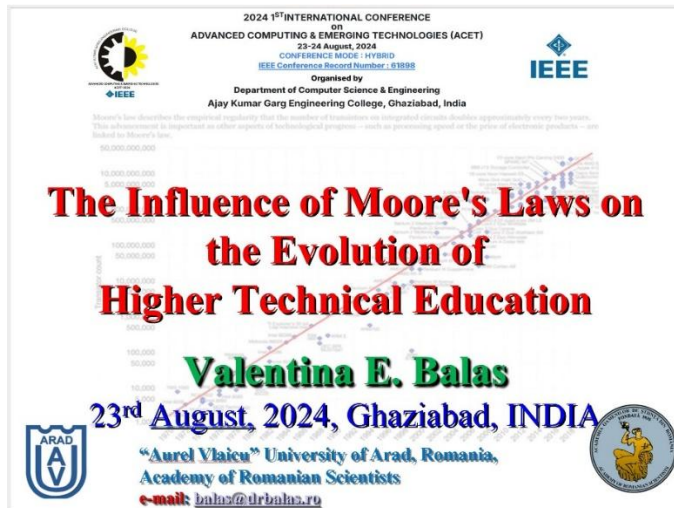
- În perioada 23 – 24 septembrie 2024, a avut loc, la Iași, în format hibrid, cea de a 36-a ediție a Conferinței Științifice Naționale de Toamnă a Academiei Oamenilor de Știință din România (AOSR), cu tematica „Rolul inteligenței artificiale în dezvoltarea durabilă a României”, în organizarea Filialei AOSR Iași, a Universitatii Tehnice “Gheorghe Asachi” din Iași și a Universitatii “Apollonia” din Iași. Am prezentat lucrarea: „*Intelligent Transportation by Constant Time to Collision Criterion*”. https://www.aosr.ro/wp-content/uploads/2024/09/VOLUM-DE-REZUMATE-toamna-IASI-2024-FINAL-18sept2024.pdf?fbclid=IwY2xjawHxLdJleHRuA2F1bQIxMAABHd9ZIOSnxLMPbZkt8QCk8whu_U9EQJGaZQOVovVpR9cozblqEjIE7ZOxA_aem_n_5VUB3YXGbtPdytKeEXcQ



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



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

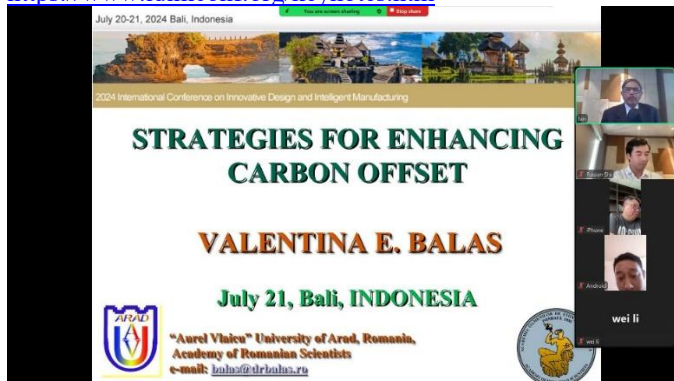


7. Speaker at FENG CHIA University, Taichung, TAIWAN, 23 July, 2024 – „Effective Methods for Improving Carbon Offset”

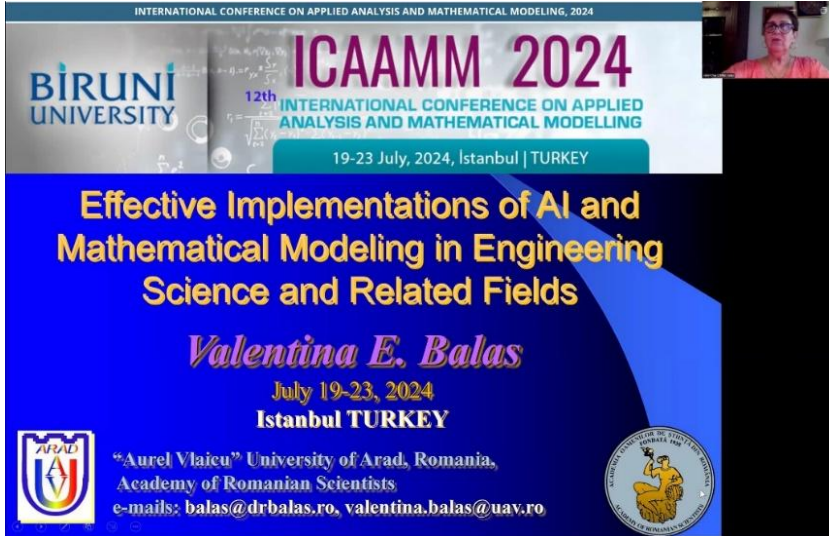


8. Keynote Speaker and Conference Chair – „Strategies for Enhancing Carbon Offset” at The 2024 International Conference on Innovative Design and Intelligent Manufacturing (IDIM 2024), July 20-21, 2024, Bali, INDONESIA.

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



9. Invited Speaker at the 12th International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2024), - , *Effective Implementations of AI and Mathematical Modeling in Engineering Science and Related Fields*”, July, 19-23, 2024, Istanbul, Turkey.
https://www.ntmsci.com/Conferences/ICAAMM2024/PlenarySpeakers?fbclid=IwY2xjawHxMWxleHRuA2FlbQIxMAABHdRb67wK1y0yZ89Ky3bAq4hXC5pGXFw162X8OfCxOf_-8M7mYFKn36z- sg_aem_T4Wi8mkC39G5KUHvTgf4fw




INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 2024


BİRÜNİ UNIVERSITY

ICAAMM 2024
12th INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING
19-23 July, 2024, Istanbul | TURKEY

Effective Implementations of AI and Mathematical Modeling in Engineering Science and Related Fields

Valentina E. Balas
July 19-23, 2024
Istanbul TURKEY

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



10. Séminaire invitée: *"Avancées de la recherche sur les méthodologies et les applications de l'informatique douce"*, au Laboratoire d'Automatique, de Mécanique et d'Informatique Industrielles et Humaines (LAMIH) - une unité mixte de recherche entre l'Université Polytechnique Hauts-de-France (UPHF) et le Centre National de la Recherche Scientifique (CNRS), spécialisée dans le transport et la mobilité humaine.
https://www.uphf.fr/lamih/agenda/seminaire-avancees-recherche-sur-methodologies-applications-linformatique-douce?fbclid=IwY2xjawHxMqNleHRuA2FlbQIxMAABHd9ZIOSnxLMPbZkt8QCrk8whu_U9EQJGaZQOVovpR9cozblqEjIE7ZOxA_aem_n_5VUB3YXGbtPdytKeEXcQ



Advances in Soft Computing Methodologies and Applications
Avancées de la recherche sur les méthodologies et les applications de l'informatique douce

Valentina E. Balas
July 8, 2024, Valenciennes, FRANCE

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



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



SLS&OPTIROB 2024

New Developments in Nano-Architectures Brain-Inspired

Valentina Emilia Balas
Aurel Vlaicu University of Arad, ROMANIA
Academy of Romanian Scientists

June 28, 2024, Jupiter, Romania



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



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

Successful Applications of AI in Engineering Science and Related Disciplines

Valentina E. Balas
June 22, 2024
Shenzhen, CHINA



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



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

**International Conference on
Mathematical Analysis and
Applications in Science and
Engineering**

20 - 22 June 2024, Porto, Portugal

**Soft Computing Techniques for Modeling
and Simulation of Roof-Top Greenhouses**

Valentina Emilia Balas

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

21 June 2024 Porto, Portugal



CERTIFICATE

WE CERTIFY THAT

Valentina Balas

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

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

MARIA JOÃO ALBUQUERQUE
 PRESIDENTE OF THE ISEP

CARLOS PINTO
 DEAN OF FACULDADE

ANTÓNIO ALBUQUERQUE
 DEAN OF FACULDADE

ISEP

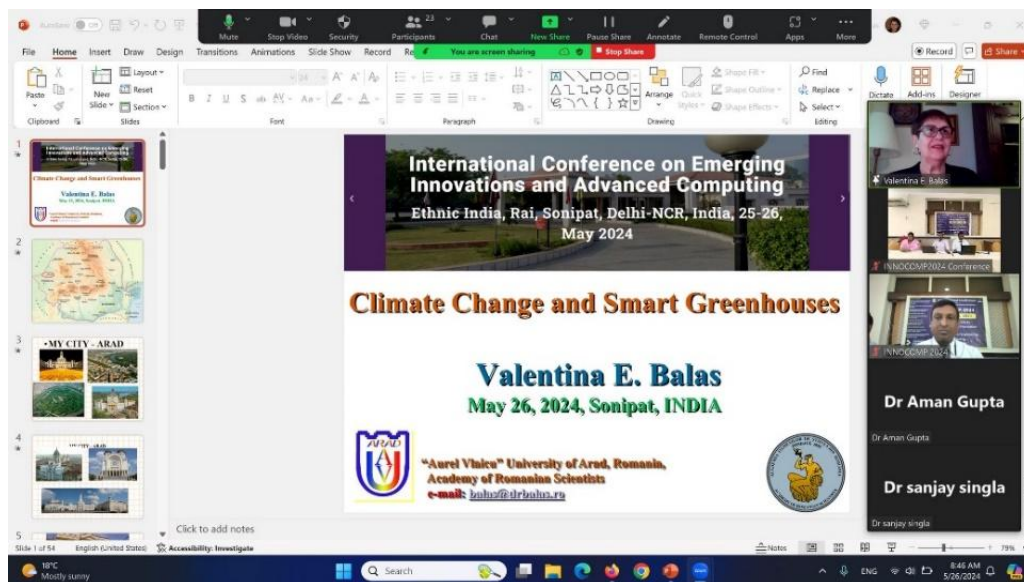
PORTO

fct

MATEMÁTICA

SPRINGER NATURE

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



15. Conferința Științifică de Primăvară a Academiei Oamenilor de Știință din România AOSR (2024), 25 mai 2024, Universitatea Politehnică București, Facultatea de Automatica și Calculatoare. Secțiunea Știința și Tehnologia Informației - Moderatori: Prof. Univ. Dr. ing. Dumitru POPESCU - Președintele Secției și Prof. Univ. Dr. ing. Cornel COBIANU, “Serele de pe acoperiș ca subiect al ingineriei sistemelor: obiective, modele, control” https://www.aosr.ro/wp-content/uploads/2024/05/VOLUM-DE-REZUMATE-PRIMAVARA-2024-SITE-1.pdf?fbclid=IwY2xjawHxO0lleHRuA2FlbQIxMAABHaVkPI3uJ7BlyfogVaFg3OXqA11Ehq0ofsCsEkOpYuRt_jwRvm5RbWIHvw_aem_s6zylm9QebzbRbNAEFE3HA

 **ACADEMIA OAMENILOR DE ȘTIINȚĂ DIN ROMÂNIA**

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

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

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

25 Mai, 2024, București, ROMÂNIA

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



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

6th International Conference on Data & Information Sciences (ICDIS-2024)
May 24-25, 2024
Raja Balwant Singh Engineering Technical Campus, Bichpuri, Agra, Uttar Pradesh, India

New Trends in Control Systems
Valentina E. Balas
May 24, 2024
Agra, INDIA

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

ICDIS 2024
ICDIS 2024
B K PANIGRAHI
B K PANIGRAHI
Prof. B. S. Kushwah
Prof. B. S. Kushwah

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

G H RAISONI UNIVERSITY
IISIE
75 Azadi Ka Amrit Mahotsav
RAISONI GROUP
A vision beyond

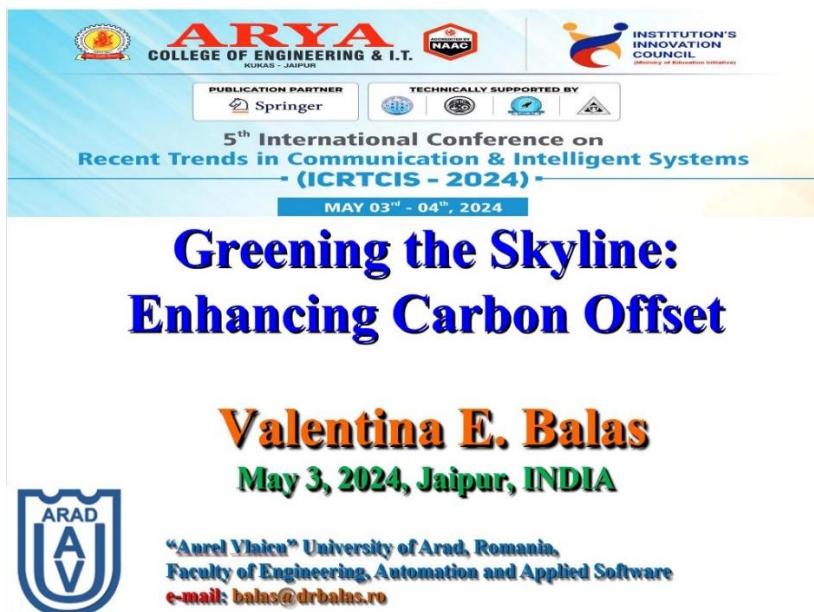
SCOPUS INDEXED
INTERNATIONAL CONFERENCE ON
**SUSTAINABLE INNOVATION
IN SCIENCE AND
ENGINEERING-2024**

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

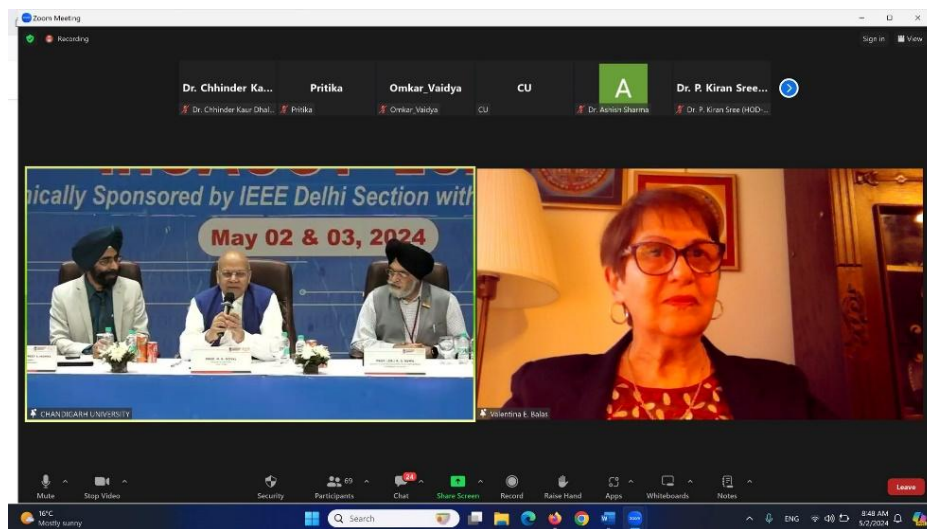
May 4, 2024, Saikheda, INDIA

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

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



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



InCACCT-2024

2ND INTERNATIONAL CONFERENCE ON ADVANCEMENT IN COMPUTATION & COMPUTER TECHNOLOGIES

TECHNICALLY SPONSORED BY IEEE DELHI SECTION WITH RECORD NO: 61598 XPLORER COMPLIANT: 979-6-3503-7131-4



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



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



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



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



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



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

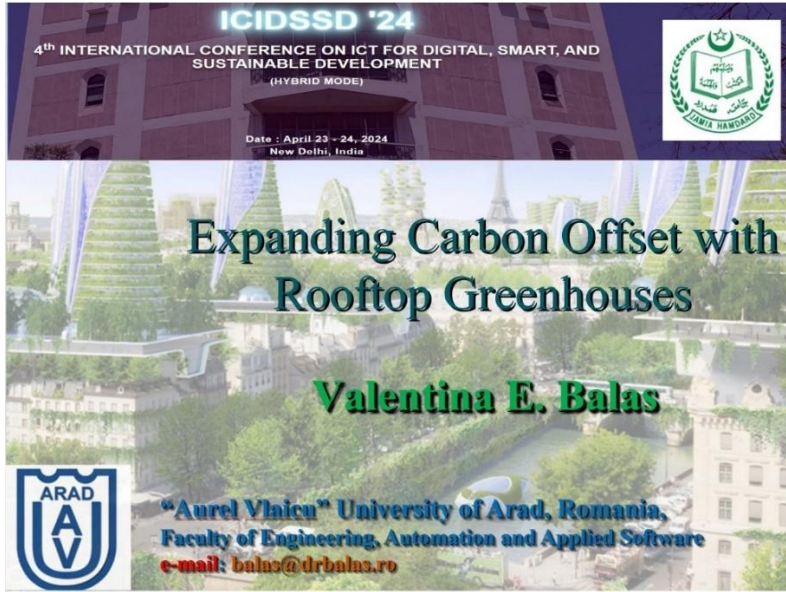


Prof. (Dr.) Sukumar Nandi, Senior Professor, Department of Computer Science & Engineering, Indian Institute of Technology Guwahati, IEEE Senior Member

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

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





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





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



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

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

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

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

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

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

Date: 03 January 2024

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

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

Certificate of Appreciation

This is to certify that

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

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

Dr. Deep Singh
Central University of Punjab
Bathinda, INDIA

Dr. Swati Gokhru
Poornima University
Jaipur, INDIA

Ms. Kgomotso Morotolo
Nexus University
SOUTH AFRICA

Dr. Manish Bansal
Baba Farid College
Bathinda, INDIA

Dr. Mehar Chand
MathTech Thinking Foundation
Fazilka, INDIA



Artificial Intelligence and Machine Learning an Introduction to Data Science

Prof. Dr. Valentina Emilia Balas

January 3, 2024, Bathinda, INDIA



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

1.8. Membru in comisie de doctorat sau de promovare pe post

in Romania – 11 comisii

1. Membra în comisia pentru susținerea tezei de doctorat a domnului Ing. Adrian Victor Moldovan, *Automated Data Analysis Information Theory in Artificial Intelligence*, sustinuta la Universitatea Transilvania Brasov, 12.09.2024
2. Membra în comisia pentru susținerea tezei de doctorat a domnului Ing. Olar Marius Leonard, *Contribuții privind proiectarea și conducerea unui exoschelet bio – inspirațional pentru cupla umărului*, la Universitatea din Petrosani, 15.07.2024
3. Membra in Comisia de abilitare a D-lui Conf. Dr. Ing. Ionut Muntean, *Cross-domain research in systems engineering as innovation driver for the development of future technologies*, la Universitatea Tehnica din Cluj-Napoca, 04.11.2024

Evaluat teze de doctorat sau teze de abilitare ca si membru in Comisia 15 CNATDCU

4. Andrioaia Dragos Alexandru – teza de doctorat *Cercetări privind îmbunătățirea sistemelor de mentenanță predictivă utilizând IoT*, Universitatea Stefan Cel Mare din Suceava
5. Eugen-Richard Ardelean – teza de doctorat *Computational Methods for Brain Signal Analysis during Perception and Behaviour*, Universitatea Tehnica din Cluj Napoca
6. Sebastian Mihai Ardelean – teza de doctorat *Development of heuristic methods on reversible and quantum computers*, Universitatea Politehnica din Timisoara
7. Gamulescu Oliviu-Mihnea – teza de doctorat *Contribuții privind recunoașterea automată a culturilor agricole cu ajutorul unei drone*, Universitatea din Petrosani
8. Mircea Ghidarcea – teza de doctorat *Generare de Numere Prime in Secventa – Algoritmi si Optimizari*, Universitatea Politehnica Bucuresti
9. Ionut Dorinel Muraretu – teza de doctorat *Agent-based Declarative Modeling for Enhanced Planning and Scheduling in Complex Systems*, Universitatea din Craiova
10. Ovidiu Pauca – teza de doctorat *Cooperating automated vehicles through communication networks*, Universitatea Tehnica "Gheorghe Asachi" din Iasi
11. Lia Anca Hangan - teza de abilitare, *Data-Driven Monitoring of Cyber-Physical Systems: from Data Acquisition to Anomaly Detection*

- in UK – 1 comisie de promovare pe post de Profesor

Committee of Royal Holloway, University of London, m-a invitat in Comitetul pentru promovare a **Dr. Li Zhang** in the Department of Computer Science pentru pozitia de Professor.

<https://scholar.google.com/citations?user=SNh9qOQAAAAJ&hl=en>

- in Pakistan – 1 comisie promovare pe post

- Dr. Bilal Wajid, promovare pe post de Associate Professor la Department of Electrical Engineering at the University of Engineering & Technology (UET), Lahore, Pakistan

Teze de doctorat – 4

1. Abdullah Mughees, *Development of optimized advanced control laws for trajectory tracking of quadcopter*, School of Electrical Engineering & Computer Science, National University of Sciences and Technology, Islamabad, Pakistan
2. Faheem Qasim, *Pore Size Optimization of Anodic Aluminium oxide Membrane for Biomedical Applications*, Government College University, Lahore, Pakistan
3. Muhammad Imran Afzal Durrani, *Semantic-Based Framework for Verbal Autopsy to Identify Cause of Maternal Death*, Department of Computer Sciences, Faculty of Information Technology, the University of Lahore (UOL), Pakistan
4. Shariqa Fakhra, *Learning Facial Expression in the Smart Classroom*, Department of Computer Science, University of Balochistan, Pakistan

In India – 42 de teze evaluate

1. Abhilash S. Basu, *Design of flexible antenna and parameter enhancement using nanocomposite materials*, Noorul Islam Centre for Higher Education, Kumaracoil, Kanyakumari, India
2. Abinaya V., *Satellite image classification using cellular automata*, Anna University, Chennai, India
3. Alicia Passah, *Classification of synthetic aperture radar images using machine learning techniques*, North-Eastern Hill University, Shillong, Meghalaya, India
4. 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
5. Amanpreet Kaur, *Learning Analytics Dashboard for Novice Programmers: Analysing the Impact of Computational Thinking and Non-Cognitive Factors*, Guru Nanak Dev University Amritsar, India
6. Ankireddy Sri Venkata Praneel, *Text spotting using deep learning models for multi-oriented text in natural scene images*, Gitam School of Technology, Visakhapatnam, India
7. Anurag Choudhary, *Development of fault diagnosis strategies for electric vehicle motor*, IIT Delhi, India
8. Arockia Sukanya S., *Classification and segmentation of covid-19 ground-glass opacification in lung ct images using deep learning techniques*, Anna University, Chennai, India
9. Arun Kumar Singh, *Beamforming for Sensing and Communication towards Intelligent Transportation System*, NIT Durgapur, India
10. Bhaskar Prakash Kosta, *Design of three factor authenticated key exchange protocol and security scheme for lightweight environment to improve the duration of wireless sensor network*, GITAM School of Technology, Visakhapatnam, India
11. C. Vijayalakshmi, *Predictive modeling of hepatitis B: a comprehensive analysis using machine learning and deep learning methods*, B. S. Abdur Rahman Crescent Institute of Science & Technology, Chennai, India
12. Chitra B., *Suspicious lesion segmentation and classification of cervical pap smear images for cervical cancer diagnosis*, Noorul Islam Centre for Higher Education Kumaracoil, Kanyakumari, India
13. Deepali Bassi, *An Empirical Assessment of Machine Learning Techniques for Optimizing Software Vulnerability Prediction Models*, Guru Nanak Dev University Amritsar, India
14. A. J. Deepa, *Providing cloud security using intrusion detection system*, Anna University, Chennai, India
15. Geo Genefer G., *Chronic disease prediction using hybrid FOCB and novel ODDTC-ADSCAN algorithms in big data analytics*, Anna University, Chennai, India
16. Hardeep Singh, *A novel approach for the identification of influential nodes in social networks*, Guru Nanak Dev University Amritsar, India

17. Herald A., *Investigation of suitable modulation schemes and errorless channel selection method for underwater optical/wireless communication*, Anna University, Chennai, India
18. Ierin Babu, *A competent algorithm of a machine learning model for predicting engineering students academic performance*, Noorul Islam Centre for Higher Education Kumaracoil, Kanyakumari, India
19. Jaspreet Kaur, *Computer Aided Diagnosis for Medical Images using Machine Learning and Deep Learning Techniques*, Guru Nanak Dev University Amritsar, India
20. Jarayamulu C, *A novel machine learning framework for outlier detection in high dimensional data*, DAYANANDA SAGAR UNIVERSITY, Devarakaggalahalli, Harohalli, India
21. Jeya Ramya V, *Metaheuristic optimization based deep learning models for classification of leukemia from blood microscopic images*, Sathyabama, Institute of Science and Technology
Jeppiaar Nagar, Chennai, India
22. Jayanthi S., *Auto rhythm-AI: an automated arrhythmia diagnosis using hybrid deep learning approach*, SRM Institute of Science and Technology Kattankulathur, India
23. Lisha L.B., *Deep ensemble model for diabetic retinopathy classification*, Anna University, Chennai, India
24. Lyernisha S.R., *Object recognition from underwater images using deep CNN approach*, Anna University, Chennai, India
25. Mahak Narang, *Correlational analysis of HRV and respiratory signals*, Thapar Institute of Engineering and Technology, Patiala, India
26. Manivannan D., *Enhancement of Diabetic Care: Integrating Intelligent Techniques for Disease Prediction, Monitoring and Management*, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai, India
27. Manjula Poojary, *Gaussian Mixture Model Based Methodology using Aura and Migraine Images for the Effective Identification of Migraine Disease*, GITAM School of Technology, Visakhapatnam, India
28. Minah Samir Deshmukh, *Image Compression Using Stochastic Computing on Programmable Platform*, Dr. Vishwanath Karad MIT World Peace University, Pune, India
29. Jarayamulu C., *A novel machine learning framework for outlier detection in high dimensional data*, Dayananda Sagar University, Devarakaggalahalli, Harohalli, India
30. Muthupandi M., *Analysis of amino acid repeats and stability for predicting bipolar-caused disorder in proteins using machine learning techniques with natural variants*, Anna University, Chennai, India
31. L. Ashok Kumar, *Multi-temporal change detection in satellite images using optimization algorithm and deep neural networks method*, Sathyabama Institute of Science and Technology
Jeppiaar Nagar, Chennai, India
32. Parves Mohammed, *An efficient heart disease prediction and diagnosis model using medical internet of things (MIoT) for health log management*, Anna University, Chennai, India
33. Preethi M., *Monitoring and prediction of smart farming in iot environment using a correlation based ensemble model*, Anna University, Chennai, India
34. Priyanka, *Characterization and Performance Estimation of Indoor Visible Light Communication System*, Guru Nanak Dev University Amritsar, India
35. Rashmi G., *Optimization of MPPT controller using metaheuristic techniques for wind energy conversion system*, Anna University, Chennai, India
36. Richa Sharma, *Fake News Detection in Low-Resource Hindi Language Using Linguistic Content-Based Features and Multimodal Contrastive Learning*, PES University, Bangalore, India
37. Sankhadeep Chatterjee, *Studies on Improvement of Classifier Performance by Analyzing Class Imbalance and Overlapping Problems*, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India
38. Sharguunam S, *Investigation on glioma detection and grading schemes by deep learning Techniques*, Anna University, Chennai, India
39. Subhajit Roy, *Development and Analysis of a Multimedia Based Steganographic System*, NIT Durgapur, India
40. Tadi Chandrasekhar, *A novel method for cloud security using homomorphic encryption based on facial key template*, GITAM School of Technology, Visakhapatnam, India
41. Vignesh R, *Enhancing cloud security and storage efficiency: an investigation of deduplication methodology and two-factor authentication*, Anna University, Chennai, India
42. Vinod P. R., *Biometric authentication mechanism to enhance the security for smartphones*, Noorul Islam Centre for Higher Education Kumaracoil, Kanyakumari, India

2. Rapoarte, proiecte de cercetare

1. Proiect de cercetare **depus**: Horizon Europe (HORIZON)
Call: HORIZON-CL4-2024-HUMAN-03
Project: 101213279 — Healthcare model
UAV – Partener

2. Proiect ERASMUS-EDU-2024-CBHE-STRAND-2 Type of Model Grant Agreement
ERASMUS-AG-LS Type of Action ERASMUS-LS Call ERASMUS-EDU-2024-CBHE
Acronym BAIRWA Proposal title Building Capacities in Artificial Intelligence to Mitigate the
Effect of Climate Change through Higher Learning Institutions in Rwanda – **necastigat**

3. Evenimente științifice organizare/participări

3.1 Evenimente științifice organizate

Selectie

1. General Co-Chair, International Conference on Optimization Techniques in Engineering and Technology Engineering (ICOTET 2024), 25th -26th October 2024 at Dronacharya Group of Institutions, Greater Noida, UP, India.

[Home | ICOTET-2024 \(icotet2024.com\)](http://www.icotet2024.com)

The screenshot displays the website for the International Conference on Optimization Techniques in Engineering and Technology (ICOTET 2024). The header includes the conference title, dates (October 25-26, 2024), and logos for Dronacharya Group of Institutions and Springer. A navigation menu is located below the header. The main content area is titled "General Co-Chair" and features six circular portraits of the co-chairs, each with their name and a list of their professional affiliations and titles.

Name	Title	Affiliations
Prof. Habil. Dr. Valentina Emilia Balas	Assoc. Prof.	Auton. Univ. of Jassi Faculty of Engineering, Department of Automation and Applied Informatics Head of the Department of Informatic Systems Head of the Intelligent Systems Research Centre Associate Member of Romanian Academy of Sciences IEEE Senior Member
Celestine Iwendi	Ph.D SMIEEE FHEA FIMC	Research Coordinator, School of Creative Technologies, UoL U.K Tier-1 Global Talent Reader Visiting Professor Fellow IEEE IEEE ACIS Distinguished Speaker Senior Member IEEE IEEE SBrno Ambassador Fellow Institute of Management Consultants
Ali Kashif Bashir	Ph.D	Head, Advanced Cybersecurity, National Institute of Technology, India
Mohammad Najafzadeh	Associate Professor	Department of Urban Engineering, Faculty of Civil and Surveying Engineering, Graduate University of Advanced Technology, and of Natl. Highways Authority Knowledge Institute, Karman, Iran
Dr. Suneet K. Gupta	Associate Professor	School of Computer Science Engineering & Technology, Bennett University, India
Prof. Bipin Pandey	Head of the Department	of Computer Science and Engineering, Dronacharya Group of Institutions, Gr. Noida, Uttar Pradesh, India

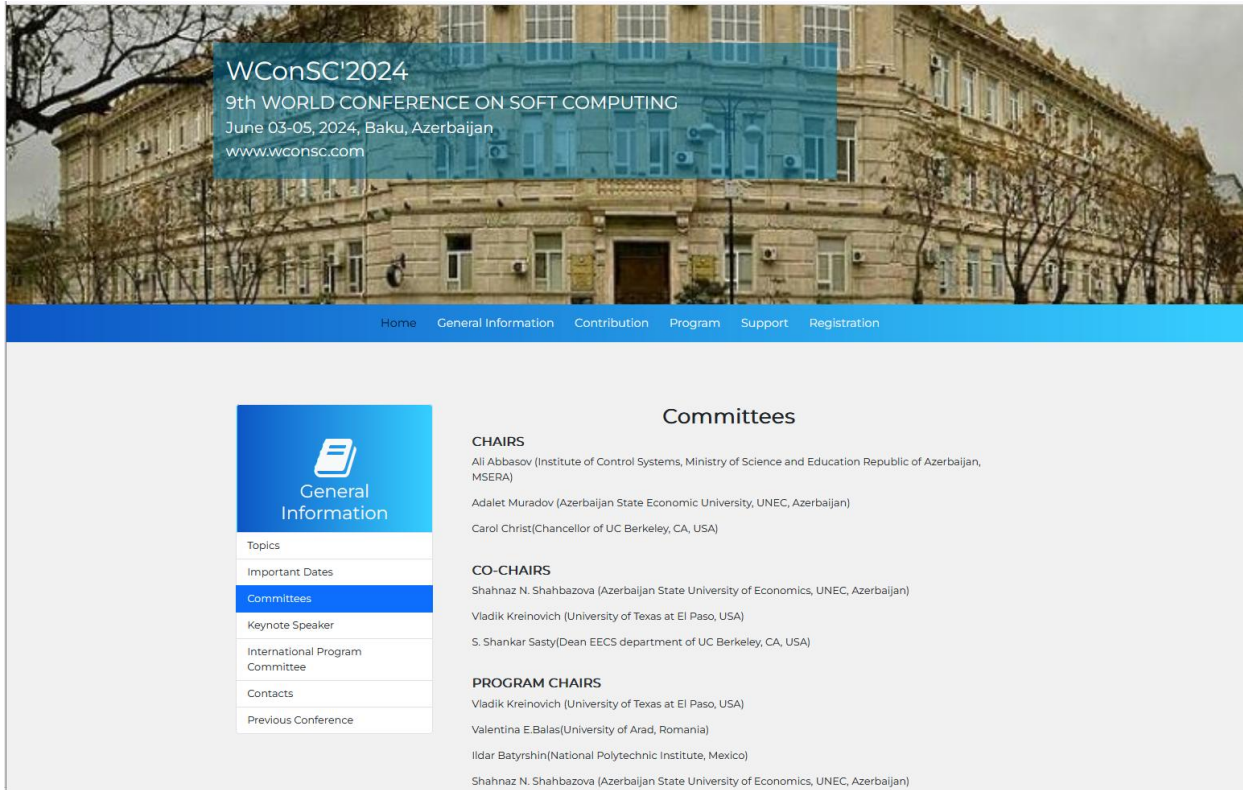
2. Program Committee Member to SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING (AN AUTONOMOUS INSTITUTION, AFFILIATED TO ANNA UNIVERSITY) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING ORGANIZES 5TH INTERNATIONAL CONFERENCE ON POWER AND EMBEDDED DRIVE CONTROL – 2024, ICPEDC – 2024, JANUARY 17 - 18, 2024

<https://icpedc2024.in/>

<https://www.ssn.edu.in/wp-content/uploads/2023/12/ICPEDC-2024-Brouchure.pdf>

3. Program Chair to 9th World Conference of Soft Computing (9th WConSC'24) will be held at the Institute of Control System, Ministry Science and Education of the Republic of Azerbaijan in Baku, Azerbaijan, on June 03-05, 2024.

<https://isi.az/en/announce/381/>



WConSC'2024
9th WORLD CONFERENCE ON SOFT COMPUTING
June 03-05, 2024, Baku, Azerbaijan
www.wconsc.com

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General Information

Topics

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International Program Committee

Contacts

Previous Conference

Committees

CHAIRS

Ali Abbasov (Institute of Control Systems, Ministry of Science and Education Republic of Azerbaijan, MSERA)

Adalet Muradov (Azerbaijan State Economic University, UNEC, Azerbaijan)

Carol Christ (Chancellor of UC Berkeley, CA, USA)

CO-CHAIRS

Shahnaz N. Shahbazova (Azerbaijan State University of Economics, UNEC, Azerbaijan)

Vladik Kreinovich (University of Texas at El Paso, USA)

S. Shankar Sasty (Dean EECS department of UC Berkeley, CA, USA)

PROGRAM CHAIRS

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Valentina E. Balas (University of Arad, Romania)

Ildar Batyrshin (National Polytechnic Institute, Mexico)

Shahnaz N. Shahbazova (Azerbaijan State University of Economics, UNEC, Azerbaijan)

4. Technical Program Committee la icWCSN 2024, April 12-14, 2024 in Chengdu, China. – 11th International Conference on Wireless Communications and Sensor Networks, <https://www.icwcsn.org/speakers.html> ISI

5. Advisory Committee to **The 5th International Conference on Innovative Trends in Information Technology (ICITIIT-2024)**, a premier annual conference technically co-sponsored by IEEE Kerala Section focused on recent advancements in Information Technology will be held on March, 15-16, 2024 at Indian Institute of Information Technology Kottayam (IIIT Kottayam), <https://icitiit24.iiitkottayam.ac.in/committee.html>

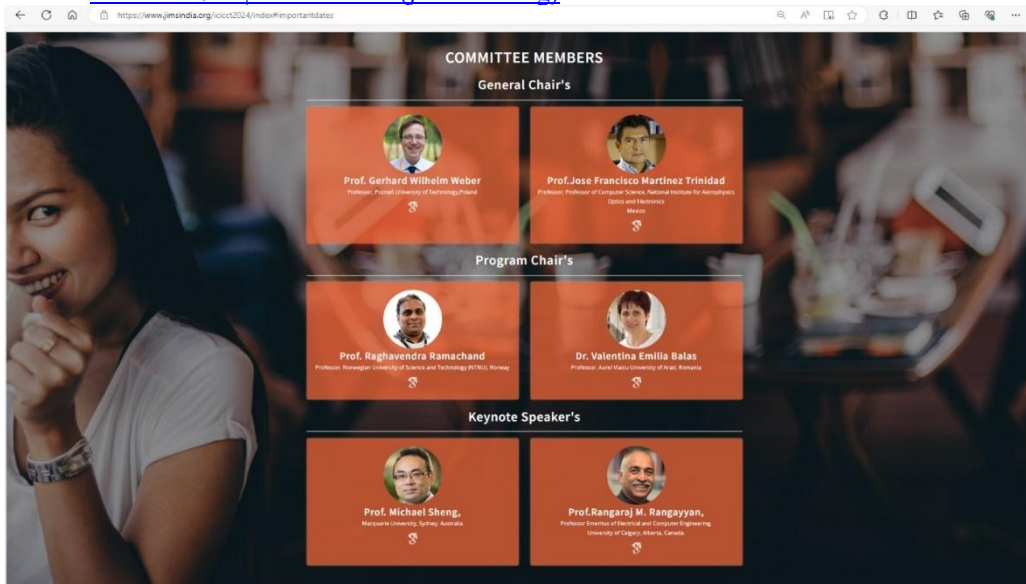
6. International Advisory Committee to 10th International Conference on Mathematics and Computing ICMC 2024, 02-07, January, 2024 & a pre-conference National Symposium On Advanced Mathematical Methods, 02-03, January, 2024, Kalasalingam Academy of Research and Education, Tamil Nadu, India,

<http://icmc2024.kalasalingam.ac.in/index.php/committee/>

7. Honorary Chair and Member in Advisory Committee to **“International Conference on Advances in Computer Engineering and Communication Systems (ICACECS)”** ICACECS 2024 is also co-located at THE UNIVERSITY OF THE WEST INDIES (UWI), AT MONA, Jamaica, 8-9 August 2024,

<https://icacecs.org/index.php>

8. Program Chair to 9th International Conference Information, Communication & Computing Technology (ICICCT-2024), 11 May 2024, Jagan Institute of Management Studies (JIMS), Delhi, India, [ICICCT 2024 | JIMS Rohini \(jimsindia.org\)](https://www.jimsindia.org/icicct2024/index.php/importantdates)



9. International Advisory Committee member on the 4th International Conference on "Recent Developments in Engineering and Technology" (ICRDET-2024) January 16th -17th, 2024 at Anand International College of Engineering, Jaipur.

[Anand-ICE \(anandice.ac.in\)](http://anandice.ac.in)

10. Membra in Technical Program Committee la 2024 The 4th Asia Conference on Information Engineering (ACIE 2024), 26-28 January 2024, Singapore, <https://acie.org/index.html>



11. Advisory Committee at 9th International Conference on Automation, Control and Robotics Engineering (CACRE 2024), co-organized by The Hong Kong University of Science and Technology (HKUST) and Hong Kong Society of Mechanical Engineers (HKSME), technical sponsored by IEEE RAS, Suncheon National University, Sichuan University, Xi'an Jiaotong University and Dalian Maritime University, supported by

Hong Kong Association for Advanced Scientific Research. The conference will be held at **Jeju Island, South Korea** from July 18-20, 2024.

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Zati Hakim Azizul Hasan, University of Malaya, Malaysia



2024 3rd International Conference
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Call for Paper-Topics

Active media technology
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Computer network and internet modeling
Data mining and knowledge discovery
Feedback and decentralized control

Sensor data analysis and system diagnosis
Sensor design, integration and fusion
Sensor networks
Sensors based control and automation
Service science, management and engineering
System control and optimal control
System modeling, identification and simulation
Tele-robotics, medical robotics
Traffic modeling and congestion control
Vision and image processing
Wavelet algorithm and multi-wavelet
Fractal geometry

More Topics: <https://iditr.org/cfp.html>

Publication Information

- All submissions will be peer reviewed, and all the accepted papers will be published in The Conference Proceeding of IDITR 2024, the publisher will submit to Engineering Village, Scopus, Web of Science and other databases for review and indexing after publication.
- Selected papers with high quality will be recommended to publish in international journal.

#IDITR 2023 Conference Proceedings was published by IEEE and included in IEEE Xplore, and indexed by EI.

Speakers



Prof. Jiannong Cao
The Hong Kong Polytechnic University, Hong Kong



Prof. Hanxiong Li
The City University of Hong Kong, Hong Kong



Prof. Dong Xuan
Shandong University, China

Submission Method

The author must submit the draft version of paper for review before the due submission deadline. In order to avoid repeated submission, please just choose one submission method. Please click following link:
Electronic submission system:
<https://cmt3.research.microsoft.com/IDITR2024>

Contact Info.

Coral Lu
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Website: <https://iditr.org/> WeChat: HKSME15756362251

Important Dates

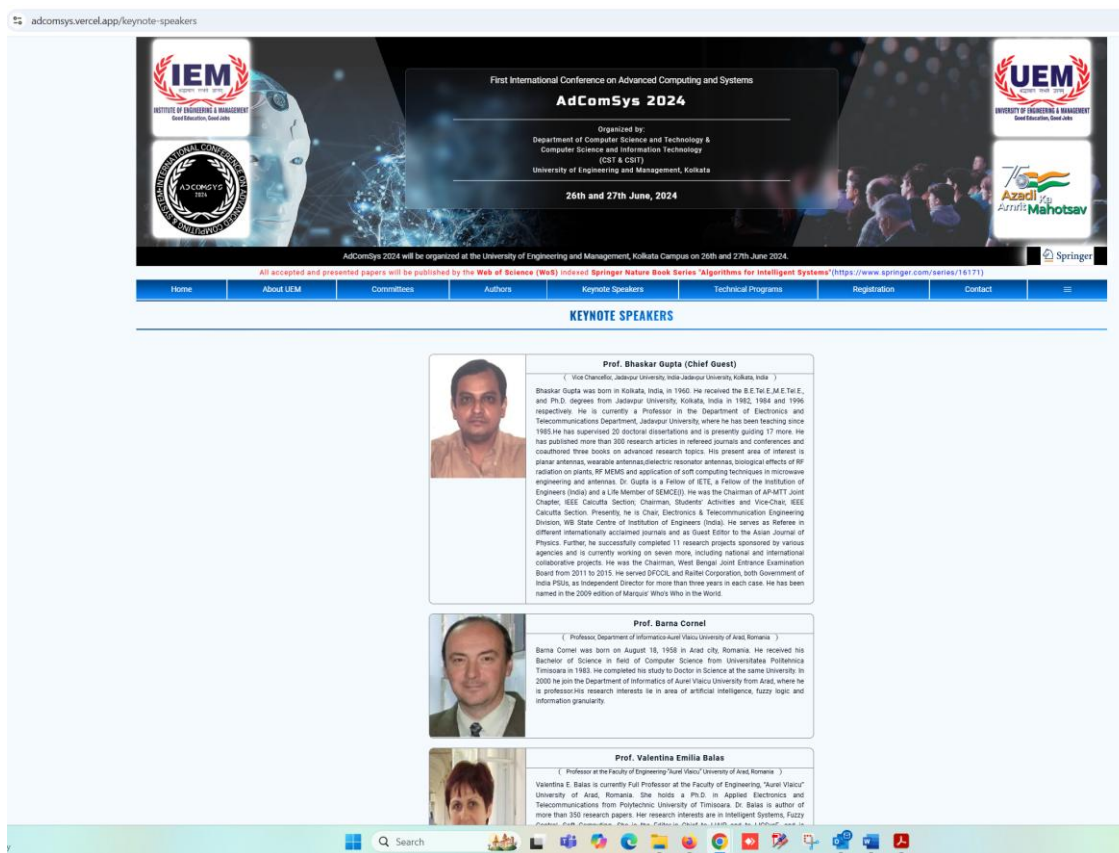
Mar. 25, 2024	Apr. 25, 2024	May 10, 2024	May 23-25, 2024
Full paper submission deadline	Notification of acceptance	Registration deadline	Conference date

12. Member of Advisory Committee la First international conference on cognitive computational trends in engineering, Conference Date: 8th and 9th October, 2024, organized by Galgotias College of Engineering & Technology (GCET), India

13. Member in International Advisory Board to 2024 IEEE 6th International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA), Oct. 19 - 20, 2024, Hamburg · Germany
[https://www.aconf.org/conf_198819.2024_IEEE_6th_International_Conference_on_Cybernetics,_Cognition_and_Machine_Learning_Applications_\(ICCCMLA\).html](https://www.aconf.org/conf_198819.2024_IEEE_6th_International_Conference_on_Cybernetics,_Cognition_and_Machine_Learning_Applications_(ICCCMLA).html)

14. Member of the Conference Committee to The 2024 International Conference on Marine Engineering, Power Machinery and Engineering Manufacturing (IMPEM 2024), Changsha, China, 18.11.2024, <https://www.global-meetings.com/impem/commttiees.html>


15. Keynote Speaker la The International Conference on Advanced Computing and Systems (AdcomSYS), Organized by: Department of Computer Science and Technology & Computer Science and Information Technology (CST & CSIT), University of Engineering and Management, Kolkata, **26th and 27th June, 2024**, <https://adcomsys.vercel.app/keynote-speakers>



16. Membra in International Advisory Committee la The International Conference on Advanced Computing and Systems (AdcomSYS), Organized by: Department of Computer Science and Technology & Computer Science and Information Technology (CST & CSIT), University of Engineering and Management, Kolkata, 26th and 27th June, 2024, <https://adcomsys.vercel.app/committees/international-advisory>

17. Membra in Technical Program Committee la The 5th EAI International Conference on Wearables in Healthcare (EAI HealthWear 2024), Isparta, Turkey, 2-3 Dcembrie 2024
<https://healthwear-conference.eai-conferences.org/2024/technical-program-committee/>

https://healthwear-conference.eai-conferences.org/2024/technical-program-committee/



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 University of Engineering and Management, Kolkata
 26th and 27th June, 2024

All accepted and presented papers will be published by the Web of Science (WoS) indexed Springer Nature Book Series "Algorithms for Intelligent Systems" (https://www.springer.com/series/16171)

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18. Membra in Comitetul de Organizare al Conferintei Internationale „Theories of Change in Digital Wellbeing. Evidence based practices across the disciplines”, 5 – 7 JUNE 2024 – Arad, Romania,
<https://tedw2024.uavconferences.eu/organization-committee/>

Journal Board

tcdw2024.uavconferences.eu/organization-committee/

TCDW2024
Theories of Change in Digital Wellbeing: Evidence based practices across the disciplines

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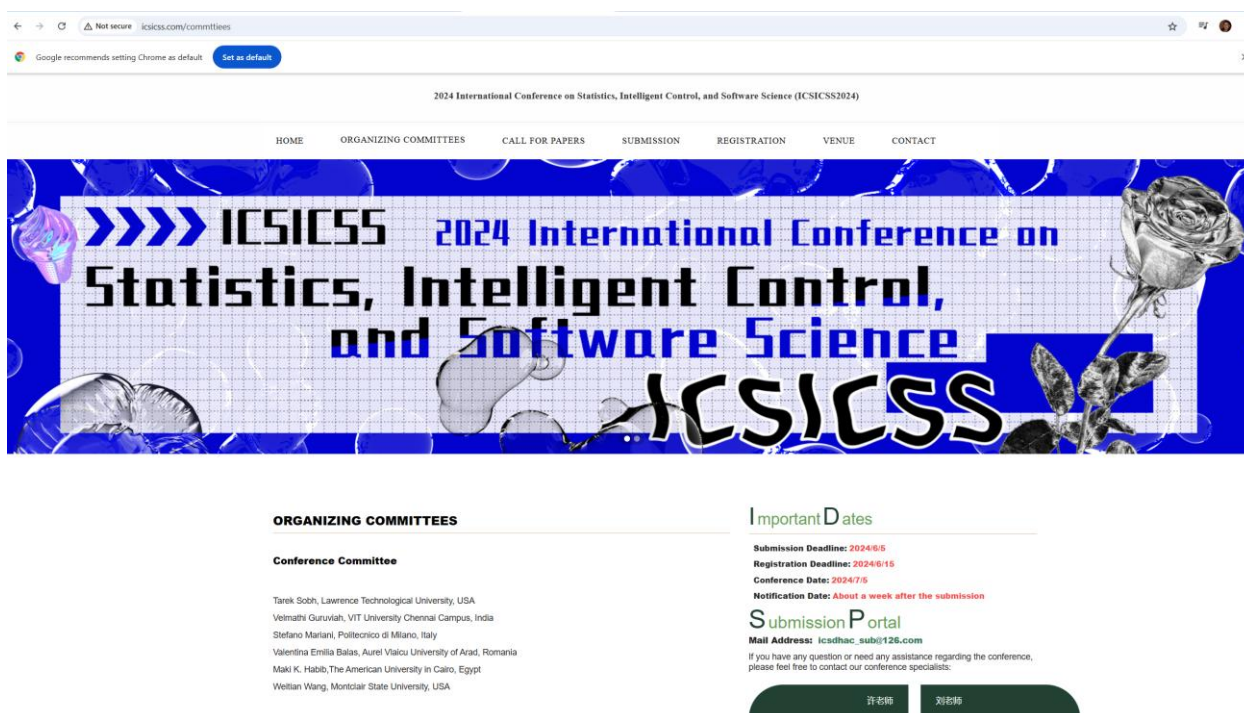
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Membru in Editorial Board - <https://www.gdejournal.org/committee.htm> - Green Design Engineering

19. Conference Committee Member to 2024 International Conference on Statistics, Intelligent Control, and Software Science (ICSICSS2024), 05.07.2024, Nanjing, China, <http://www.icsicss.com/commttiees>



20. Member in the Scientific Committee la “StudMath-IT International Students Conference”
“Aurel Vlaicu” University of Arad, [Faculty of Exact Sciences](https://studmathit-uav.ro/scientific-committee/), 21-22 Noiembrie 2024, Arad,
<https://studmathit-uav.ro/scientific-committee/>

21. Membra in International Program Committee la 2nd International Conference on Advanced Computing & Communication Technologies (2nd ICACCTech 2024) in association with Jan Wyżykowski University, Polkowice, Poland & BM Institute of Engineering and Technology, Sonipat, Haryana at Ethnic India, Rai, Sonipat, Delhi-NCR, India on 16-17 November 2024,
<https://www.acctcomputing.com/committee>

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computer animation & virtual worlds

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 CH-1015 Lausanne, Switzerland
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22. Membra in Program Committee la 2nd International Conference on Information Science and Techniques (ISTECH 2024), December 28 ~ 29, 2024, Dubai, UAE, <https://csitai2024.org/istech/> , <https://csitai2024.org/istech/committee>
23. Membra in Technical Program Committee la 2nd International Conference on Advanced Computing & Communication Technologies (2nd ICACCTech 2024) in association with Jan Wzykowski University, Polkowice, Poland & BM Institute of Engineering and Technology, Sonipat, Haryana at Ethnic India, Rai, Sonipat, Delhi-NCR, India on 16-17 November 2024, <https://www.acctcomputing.com/committee>
24. Membra in Advisory Committee la 2024 International Conference on Advancement in Renewable Energy and Intelligent Systems (AREIS), Dec. 05 - 06, 2024, Jyothi Engineering College, Jyothi Hills, Panjal Rd, Vettikattiri, Cheruthuruthi, Thrissur, , India, 679531, Thrissur, India, https://www.aconf.org/conf_197417.html



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Prof. Dr. Valentina Emilia Balas

Faculty of Engineering, Department of Automation and Applied
Informatic, "Aurel Vlaicu" University of Arad, Romania

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For Registration: <https://rb.gy/svsqai>

Upcoming Events: www.mttf.in/events

MathTech Thinking Foundation

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25. Technical Program Chair la Fifth International Conference on Sustainable Communication Networks and Application, ICSCNA 2024, 11-13, December 2024, Bharath Niketan Engineering College Theni, Tamil Nadu, India
<https://icoscn.com/committee.html>
26. Membra in International Program Committee la 2nd International Conference on Advanced Computing & Communication Technologies, (Hybrid Mode), 16th & 17th November 2024, Ethnic India, Rai, Sonipat, Delhi - NCR, India
<https://www.acctcomputing.com/committee>
27. Conference Chair la The 8th Euro-China Conference on Intelligent Data Analysis and Applications / December 7-9,2024 Xiamen, China, ECC 2024
<http://www.ecc-idaa.org.cn/Organizing-Committee>
28. Member in International Advisory Committee la 2024 International Conference on **Technological Solutions for Smart Economy (SmartEco 2024)** scheduled to hold from Monday, 12th to 15th of August 2024, in Port Harcourt, Rivers State, Nigeria.
<https://www.ncs.org.ng/conference-2024/committees/>
29. Member in International Advisory Board la International Conference on Artificial Intelligence and Quantum Computing (ICAIQC-2024), GITA Autonomous College, Bhubaneswar, 23-24 Dec, 2024
<https://www.gita.edu.in/gita/ICAIQC/ICAIQC/committee.html>
30. Membra in International Advisory Board la, IEEE 18th International Symposium on Applied Computational Intelligence and Informatics, SACI 2024, May 21-25, 2024, Siófok, Hungary, Timisoara, Romania,
<https://conf.uni-obuda.hu/saci2024/committees.html>
31. Membra in Technical Program Committee la at IEEE 28th International Conference on Intelligent Engineering Systems 2024 (INES 2024) to be held on July 17-19, 2024 in Gammarth, Tunisia, <http://www.ines-conf.org/ines-conf/2024committees.html>

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

Nr.	Anul	Numele cadrului didactic	Revista	ISSN	Pagina web www.	Pozitia ocupata
1	2024	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	2024	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	2024	Valentina E. Balas	Electronics Q2, IF=2,9 ISI	2079-9292	https://www.mdpi.com/journal/electronics/editors	Editorial Board Member
4	2024	Valentina E. Balas	PeerJ Computer Science Q2 IF=3,8 ISI	2376-5992	https://peerj.com/ValentinaBalas/	Editor
5	2024	Valentina E. Balas	Acta Polytechnica Hungarica Q3 IF=1,7 ISI	20642687	https://www.uni-obuda.hu/journal/	Associate Editor Informatics
6	2024	Valentina E. Balas	Intelligent Decision Technologies ESCI	1872-4981	http://www.iospress.nl/journal/intelligent-decision-technologies/	Associate Editor
7	2024	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	2024	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	2024	Valentina E. Balas	Journal of Intelligent Systems IF=3 ISI	2191-026X	https://www.degruyter.com/view/j/jisys?lang=en	Editorial Board
10	2024	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	2024	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
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3.3 Membru in colectivele de redactie sau editoriale internationale

Nr.	Anul	Numele cadrului didactic	Revista	ISSN	Pagina web www.	Pozitia ocupata
1	2024	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	2024	Valentina E. Balas	Journal of Computer Science and Control Systems (JCSCS)	1844-6043	https://electroinf.uoradea.ro/index.php/jcscs.html	Asociat Editor
3	2024	Valentina E. Balas	International Journal of Next-Generation Computing	2229-4678	http://www.ijnge.perpetualinnovation.net/index.phpp	Editorial Board
4	2024	Valentina E. Balas	American Journal of Intelligent Systems	2165-8978	http://www.sapub.org/journal/editorialdetails.aspx?JournalID=1060&PersonID=16075	Editorial Board
5	2024	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	2024	Valentina E. Balas	International Journal of Modern Computation, Information and Communication Technology	2581-5954	http://ijmcict.gjpublication.com/editorial-board.html	Editor

7	2024	Valentina E. Balas	Journal of Medical Informatics and Decision Making	2641-5526	https://openaccesspub.org/journal/jmid/editorial-board	Editorial Board
8	2024	Valentina E. Balas	Journal of Automation and Control Engineering	2301-3702	http://www.joace.org/	Editorial Board
9	2024	Valentina E. Balas	Agricultural Engineering Research Journal	2218-3906	http://www.idosi.org/aerj/board.htm	Editorial Board
10	2024	Valentina E. Balas	International Journal of Advanced Computer Science and Information Technology	2296-1739	http://elvedit.com/journals/IJACSIT/editorial-board/	Editorial Board
11	2024	Valentina E. Balas	International Journal of Granular Computing, Rough Sets and Intelligent Systems	1757-2711	https://www.inderscience.com/jhome.php?jcode=ijgrsis	Editorial Board
12	2024	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	2024	Valentina E. Balas	Cyber Journals: Multidisciplinary Journals in Science and Technology	1925-2676	http://www.cyberjournals.com/associates.html	Associate Editor
14	2024	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	2024	Valentina E. Balas	Turkish Journal of Analysis and Number Theory	2333-1100	http://www.sciepub.com/journal/TJANT/editors	Editor
16	2024	Valentina E. Balas	International Journal of Bio-Medical Informatics and e-Health	2321 - 9017	http://www.warse.org/IJBMIeH/editorialBoard	Advisory Committee Member

17	2024	Valentina E. Balas	Engineering Science & Technology	2717-5235	https://ojs.wiserpub.com/index.php/EST/about/editorialTeam	Editorial Board
18	2024	Valentina E. Balas	International Journal of Computers and Communications	2074-1294	http://www.naun.org/cms.action?id=3050	Associate Editor
19	2024	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	2024	Valentina E. Balas	International Journal of Advanced Robotics and Automation	2473-3032	https://symbiosisonlinepublishing.com/robotics-automation/editorialboard.php	Editorial Board
21	2024	Valentina E. Balas	Suresh Gyan Vihar University Journal of Engineering & Technology	2277-6915	https://www.gyanvihar.org/researchjournals/editorialboard.php	Advisory Board
22	2024	Valentina E. Balas	Journal of Fuzzy Extension & Applications (JFEA)	2783-1442	http://www.journal-fea.com/journal/editorialboard	Editorial Board
23	2024	Valentina E. Balas	Recent Advances in Computer Science & Technology	Coming Soon	https://racsat.org/	Editorial Board
24	2024	Valentina E. Balas	BOHR International Journal of Smart Computing and Information Technology (BIJSCIT)	2583-2026	BOHR Publishing	Editorial Board
25	2024	Valentina E. Balas	<i>Journal of Mahani Mathematical Research (JMMR)</i>	2251-7952	https://jmmrc.uk.ac.ir/journal/editorialboard	Editorial Board
26	2024	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	2024	Valentina E. Balas	International Journal of Cyber Forensics and Advanced Threat Investigations	2753-9997	https://conceptechint.net/index.php/CFATI/about/editorialTeam	Associate Editor
28	2024	Valentina E. Balas	Journal of Soft Computing and Artificial Intelligence	2717-8226	https://dergipark.org.tr/en/pub/jscai/board	Editorial Board
29	2024	Valentina E. Balas	International Journal of Computing and Related Technologies	(Print): 2518-4806 (Online): 2663-5429	http://ijert.smiu.edu.pk/ijert/index.php/smiu/eb	Editorial Board
30	2024	Valentina E. Balas	Intelligent Multimedia Processing and Communication Systems	2783-2570	https://impcs.zanjan.iau.ir/?lang=en	International Editorial Board
31	2024	Valentina E. Balas	Future Cyber Security and Artificial Intelligence Journal	Pending	https://fupubco.com/index.php/fcai/about/editorialTeam	Editorial Board
32	2024	Valentina E. Balas	International Journal of Engineering & Technology (IJET)	2227-524X	https://www.sciencepubco.com/index.php/ijet/about	Editorial Board
33	2024	Valentina E. Balas	International Journal of AI for Materials and Design, Accscience Publishing, Singapore	3041-0746	https://accscience.com/journal/IJAMD/about/editorial_board	Editorial Board
34	2024	Valentina E. Balas	Green Design Engineering	Pending	https://www.gdejournal.org/committee.htm	Editorial Board

3.4. Editor/Redactor sef

1	2024	Valentina E. Balas	International Journal of Advanced Intelligence Paradigms SCOPUS	1755-0394	https://www.inderscience.com/jhome.php?jcode=ijaip	Editor in Chief
2	2024	Valentina E. Balas	International Journal of Computational Systems Engineering Compendex	2046-3405	https://www.inderscience.com/jhome.php?jcode=ijcsyse	Editor in Chief
3	2024	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-eeacs	Editor in Chief

3.5. Activitati editoriale

Referent la reviste ISI

- 1.aci: Applied Computing and Informatics
- 2.adcs: 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.emig: 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.ymssp: Mechanical Systems and Signal Processing
- 37. Journal of Intelligent and Fuzzy Systems

3.6. Premii și distincții

- Premiul AOSR

Academia Oamenilor de Știință din România - Bucuresti - Gala premiilor pentru anul 2022 - **Premiul "ȘTEFAN ODOBLEJA"**, Secția XII -Știința și Tehnologia Informației, în 24 mai 2024



3.7. Membru în asociații profesionale sau organizații profesionale de prestigiu din România:

- AOSR – membru asociat
- AGIR – presedinte filiala Arad

- *SRAIT- presedinte filiala Arad*
- *AAIR - presedinte filiala Arad*
- *Vicepresedinte al Chapterului IEEE CIS Romania*

Membra in Academii, 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.ieeesmc.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://iee-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 Stiinte 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

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 in Technical Committe 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 **Asociației Române de Inteligență Artificială - 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, 2016, <http://www.asres.org.in/administrator.html>

19 ianuarie 2025

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