

Raport de cercetare

Perioada ianuarie-decembrie 2021

Centrul de Cercetare SISTEME INTELIGENTE

a) Articole stiintifice

-ISI

Nr.	Titlul articolului, autori, Jurnal, Numar, pagini	Factor de impact
1	<p>Impact of strong determination and awareness on substance addictions: A mathematical modeling approach Jose Sayooj Aby; Raja Ramachandran; Zhu Quanxin; Alzabut Jehad, Niezabitowski Michal; Balas, Valentina E.</p> <p>Mathematical Methods in the Applied Sciences</p> <p>DOI 10.1002/mma.7859; Early Access OCT 2021 Indexed 2021-11-11; Document Type Article; Early Access Accession Number WOS:000712741600001 ISSN 0170-4214 eISSN 1099-1476</p>	Q1 IF=2,321
2	<p>Self-Learning Network-based segmentation for real-time brain M.R. images through HARIS Srinivasu Parvathaneni Naga; Balas Valentina Emilia (Corresponding author)</p> <p>Peerj Computer Science</p> <p>Volume 7, Article Number e654, DOI 10.7717/peerj-cs.654 Published AUG 2 2021, Indexed 2021-09-28 Accession Number: WOS:000697099500002 eISSN 2376-5992</p>	SRI Q1 IF=1,392
3	<p>A Composite State Convergence Scheme for Multilateral Teleoperation Systems Asad Muhammad Usman; G, Jason; Farooq Umar; Balas Valentina E. (Corresponding author); Chen Zheng; Chang Chunqi; Hanif Athar</p> <p>Studies in Informatics and Control</p>	Q3 IF=1,649

	<p>Volume 30; Issue 2; Page 33-42 DOI 10.24846/v30i2y202103 Published JUN 2021; Indexed 2021-07-15 Accession Number WOS:000665728800003 ISSN 1220-1766</p>	
4	<p>Graph Theory Applications to Comprehend Epidemics Spread of Disease Venkatraman Yegnanarayanan; Narayanaa Y. Krithicaa; Balas Valentina E.; Rad Dana</p> <p>BRAIN-BROAD RESEARCH IN ARTIFICIAL INTELLIGENCE AND NEUROSCIENCE</p> <p>Volume 12, Issue 2, Page 161-177 DOI 10.18662/brain/12.2/198; Published JUN 2021 Indexed 2021-09-02 Accession Number WOS:000688360400010 ISSN 2067-3957</p>	<p>ESCI IF=0</p>
5	<p>Lifetime Enhancement of Sensor Networks by the Moth Flame Optimization Pandey Ashish; Rajan Abhishek; Nandi Arnab; Balas, Valentina E.</p> <p>Wireless Personal Communications</p> <p>Volume 118, Issue 4; Page 2807-2820 DOI 10.1007/s11277-021-08156-1 Published JUN 2021, Early Access FEB 2021 Indexed 2021-03-14 Accession Number WOS:000620442100005 ISSN 0929-6212 eISSN 1572-834X</p>	<p>Q4 IF=1,671</p>
6	<p>Alzheimer's Disease under the Purview of Graph Theory Centric Genetic Networks Venkatraman Yegnanarayanan; Narayanaa Y. Krithicaa; Balas E. Valentina; Balas M. Marius</p> <p>BRAIN-BROAD RESEARCH IN ARTIFICIAL INTELLIGENCE AND NEUROSCIENCE</p> <p>Volume 12, Issue 2, Page 178-201 DOI 10.18662/brain/12.2/199 Published JUN 2021 Indexed 2021-09-02 Accession Number WOS:000688360400011 ISSN 2067-3957</p>	<p>ESCI IF=0</p>
7	<p>AI-driven deep CNN approach for multi-label pathology classification using chest X-Rays Albahli Saleh; Rauf Hafiz Tayyab; AlgoSaibi Abdulelah, Balas Valentina Emilia (Corresponding author)</p> <p>Peerj Computer Science Article Number e495, DOI 10.7717/peerj-cs.495 Published APR 20 2021, Indexed 2021-05-24 Accession Number: WOS:000645430200001 eISSN 2376-5992</p>	<p>SRI Q1 IF=1,392</p>

8	<p>Application of improved fuzzy best worst analytic hierarchy process on renewable energy Majumder Priyanka; Balas Valentina Emilia (Corresponding author); Paul Arnab; Baidya Dayarnab</p> <p>Peerj Computer Science</p> <p>Article Number e453, DOI 10.7717/peerj-cs.453 Published APR 13 2021, Indexed 2021-05-06 Accession Number WOS:000643795000001 ISSN 2376-5992</p>	SRI Q1 IF=1,392
9	<p>Privacy preserving and data publication for vehicular trajectories with differential privacy Arif Muhammad; Chen Jianer; Wang Guojun; Geman Oana; Balas Valentina Emilia</p> <p>Measurements</p> <p>Volume 173; Article Number 108675; DOI 10.1016/j.measurement.2020.108675 Published MAR 2021, Indexed 2021-03-14 Accession Number WOS:000620271900005 ISSN 0263-2241 eISSN 1873-412X</p>	Q1 IF=3,927
10	<p>Multivariable Unconstrained Pattern Search Method for Optimizing Digital PID Controllers Applied to Isolated Forward Converter Abbas Ghulam; Asad Muhammad Usman; Gu Jason; Alelyani Salem; Balas Valentina E.; Rashid Hussain Mohammad; Farooq Umar; Awan Ahmed Bilal; Raza Ali; Chang Chunqi</p> <p>Energies</p> <p>Volume 14, Issue 1, Article Number 77 DOI 10.3390/en14010077 Published JAN 2021 Indexed 2021-01-26 Accession Number WOS:000605889300001 eISSN 1996-1073</p>	Q3 IF=3,004
11	<p>DISTURBANCE-OBSERVER-SUPPORTED THREE-CHANNEL STATE CONVERGENCE ARCHITECTURE FOR BILATERAL TELEOPERATION SYSTEMS Asad Muhammad U.; Farooq Umar; Gu Jason; Liu Rong; Abbas Ghulam; Balas Valentina E.</p> <p>International Journal of Robotics & Automation</p> <p>Volume 36, Issue 5, Page 316-324 DOI 10.2316/J.2021.206-206-0411 Published 2021, Indexed 2021-08-12 Accession Number WOS:000681182400005 ISSN 0826-8185 eISSN 1925-7090</p>	Q4 IF=0,796

-ISI Proceedings

-

-BDI

1. Muhammad Sabih, Mahnoor Ejaz, Khurram Karim Quershi, Muhammad Usman Asad, Jason Gu, Valentina E Balas, Umar Farooq; [Fraud Prediction in Pakistani E-commerce Market](#)
Publication date: 2021/12/6
2021 4th International Symposium on Advanced Electrical and Communication Technologies (ISAECT)
Pages 01-06
2. Sarkar M., Gupta S., Gaur B., Balas V.E. (2021) Visualization of COVID-19 Pandemic: An Analysis Through Machine Intelligent Technique Toward Big Data Paradigm. In: Kumar R., Sharma R., Pattnaik P.K. (eds) Multimedia Technologies in the Internet of Things Environment. Studies in Big Data, vol 79. Springer, Singapore. https://doi.org/10.1007/978-981-15-7965-3_8
3. Balas M.M., Balas V.E., Lile R., Balas S.V. (2021) Fuzzy-Interpolative Control for Intelligent Roof-Top Greenhouse Buildings. In: Shahbazova S., Kacprzyk J., Balas V., Kreinovich V. (eds) Recent Developments and the New Direction in Soft-Computing Foundations and Applications. Studies in Fuzziness and Soft Computing, vol 393. Springer, Cham. https://doi.org/10.1007/978-3-030-47124-8_46

-alte tipuri de publicatii

b) Comunicari cu rezumate publicate la conferinte/simpozioane stiintifice:

- Internationale -
- ISI Proceedings -
- Nationale -
- **Studentesti**

1. The title of the work: Networks
Author: Rohatinovici Noemi-Clara
Coordinators: Prof. univ. dr. ing. Proștean Octavian, Prof. univ. dr. ing. Bălaș Emilia, http://univagora.ro/m/filer_public/2021/09/20/program_bacstud2021.pdf
2. The title of the work: Recuperarea energiei electrice consumate într-un sistem acvaponic, cu ajutorul principiului de flotabilitate (plutire, legea lui Arhimede)
Author: Alexuță Daniel
Coordinators: Prof. univ. dr. ing. Habil Bălaș Valentina, Prof. univ. dr. ing. Bălaș Marius

- Alte tipuri de comunicari

c) Brevete de inventie, inovatie:

- Internationale
- Nationale

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

- Internationale

Carti de specialitate – co-autor

Capitole de Carte de specialitate

- Nationale
- Alte tipuri de publicatii

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).

Contracte:

Valentina Balas

1. Membru: *BioCell-Nano ART=Novel Bio-inspired Cellular Nano-architectures* (Ianuarie-Februarie 2021).
2. Coordonator; Proiect cu Ministerul Educatiei pentru finantarea Sesiunii Stiintifice Studentesti 2021 la Facultatea de Inginerie, valoare 12.400 lei
3. Director de Proiect la Proiectul UEFISCDI – mobilitatea cercetatorilor cu experients for a Mobility project for experienced researchers from diaspora - PN-III-P1-1.1-MCD-2021-0028, https://uefiscdi.gov.ro/resource-868178-mcd-2021_lista-1_rezultate-preliminare_cereri-depuse-03.11-2021-.pdf?&wtok=&wtkps=XY5BDolwEEXv0rVip6WCw8YTGBNPALTCGBRohUYNd5cSF+pq/syf9/NzTPDIUCJzpF

nmUMXIREGXob7Fz97Qri76x6WDmFdVvk4+1tb1/2lYO9RgKbusFhOIHKgINyChMgUyJj9jfWZbPzmuxr9/L/EuYAt9l07SUKLULpy0klSxBpnV3O542MuEiFSIX6RI6owJASQAJcvVrglqowx8D/Jv5VPMmCDmra6uHxkStralBnMmVmqKRjI9ye6eybVg2vQE=&wchk=4f152c1213a327f9dcfc923497028d1250391a90

4. Membru în Proiectul *Promovarea Agriculturii în mediul urban: modele matematice și soluții concrete*, Contractul de cercetare nr. 10 cu număr de înregistrare 4693/16.07.2019 între Universitatea Aurel Vlaicu și SC Contact Plus SRL Arad, valoare. 42.500 lei.

Marius Balas

b. Director de proiect: *Promovarea Agriculturii în mediul urban: modele matematice și soluții concrete*, Contractul de cercetare nr. 10 cu număr de înregistrare 4693/16.07.2019 între Universitatea Aurel Vlaicu și SC Contact Plus SRL Arad, valoare. 42.500 lei.

c. Membru: *BioCell-Nano ART=Novel Bio-inspired Cellular Nano-architectures* (Ianuarie-Februarie).

Conferințe invitate:

Valentina E. Balas

1. Invited Speaker to 6th Edition of International Conference on Computing in Engineering & Technology, ICCET 2021, January 30-31, 2021, organized by Department of E & TC Engineering, Dr. Babasaheb Ambedkar Technological University, LONERE-Raigad, INDIA.
<http://www.iccet2021.in/index.html>

2. Invited Speaker to your first scientific activity in 2021 at the American University in the UAE, in a scientific seminar on Sunday, January 31, 2021.

3. Keynote Address to Indian Institute of Finance - International Research Conference & Summit 2021 - Day 1 - 29 January 2021.

Many thanks Prof. Aman Agarwal for the invitation.

[http:// www.iif.edu](http://www.iif.edu)

<https://www.iif.edu/Semin.../IIF%20Research%20Conference.pdf>

4. Invited Speaker to The International e-conference on Rough Sets, Fuzzy Sets and Their Applications, organized by FUZZY & ROUGH SETS ASSOCIATION, 24-25 January 2021, Agartala, Tripura, INDIA.

5. Keynote Speaker to Kristu Jayanti College Autonomous at the 4th edition of The Virtual National Conference on Computational Intelligence (NCCI 2021), 11-12 January, 2021, Bengaluru, Karnataka, INDIA.

<https://kristujayanti.edu.in/ncci/KeynoteSpeakers.html>

6. Keynote Speaker to 4th International Conference on Intelligent Sustainable Systems, (ICISS 2021)

SCAD College of Engineering and Technology, Tirunelveli, India
February 26-27, 2021.

<http://icoiss.com/2021/keynote.html>

7. Keynote Speaker and Program Chair. The conference was organized by Department of Computer Science & Engineering, GIET University, Gunupur, INDIA.

<http://icngiot.in/>

8. Speaker to FUZZY & ROUGH SETS Association, AGARTALA, Tripura, INDIA, on the centenary year of Professor LOTFI A. ZADEH, 4 February 2021.
Prof. RABI NANDA BHAUMIK, President, FRSA.

9. Invited Speaker to "International Conference on Fourth Industrial Revolution based Technology and Practices (ICFIRTP) 2020, in joint organization of Quantum School of Technology and Uttarakhand Technical University, Dehradun, in association with Dr. Babasaheb Ambedkar Technological University is a unitary, state university in Lonere, under the AEGIS of TEQIP III on March 26th -27th, 2021, INDIA.

10. Invited Speaker to International Conference on the theme "5G - Global, Green, Governance, Growth and Government", organized by Faculty of Management Studies, Ganpat University, Gujarat, INDIA, 20th and 21st March, 2021.

<http://www.amdisa.org/GCeMP-2k21>

11. Invited Keynote Speaker in the inaugural session of the 3rd International Conference on "Data & Information Sciences", ICDIS 2021, organized at Raja Balwant Singh Engineering Technical Campus, Bichpuri, Agra, INDIA.

http://icdis.ssedconferences.org/#our_speakers

<http://icdis.ssedconferences.org/>

12. Expert lecture on "Trends in Artificial Intelligence" on 10th May, 2021 to the Virtual Commemoration of 33rd Foundation Day to C-DAC, Mohali, Punjab, India.

13. Invited as Keynote Speaker in The 2nd Global Conference on Artificial Intelligence and Applications (GCAIA 2021)

8th-10th September 2021, Jaipur, India || Published by CRC PRESS(Taylor and Francis Group). conference Website: <http://gcaia.uem.edu.in/>

14. Keynote Speaker to The Fourth International Conference on Computational Intelligence and Communication Technologies, CCICT - 2021, organized jointly by The Karkonosze State University of Applied Sciences in Jelenia Góra, Poland and BM Institute of Engineering and Technology, 3rd July, 2021, Sonapat, INDIA.

<http://cict21.bmiet.net/>

15. Plenary Speaker to International Virtual Conference „Mathematics & IT: Research and Education (MITRE-2021)", dedicated to the 75th anniversary of Moldova State University,

Chişinău, Republic of Moldova, July 01–03, 2021,
organized by MOLDOVA STATE UNIVERSITY
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE
MATHEMATICAL SOCIETY OF THE REPUBLIC OF MOLDOVA.
<http://cecmi.usm.md/mitre/>

16. Keynote Speaker to The 3rd International Conference on Cybernetics, Cognition & Machine Learning Applications (ICCCMLA) (21st -22nd August 2021), GOA, INDIA.

Many thanks for inviting me to Prof. Vinit Kumar Gunjan and Prof. Vijender Solanki!
<https://www.intdatacon.com/>

17. CHIEF GUEST to Valedictory Ceremony at The 2nd International Conference on Advances in Computer Engineering and Communication Systems (ICACECS-2021), organized by the Department of Computer Science and Engineering, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad, INDIA, 14 August 2021.

<https://www.icacecs.org/importantdates.php>

18. Special Guest and Keynote Speaker to the 4th International Conference on Mathematical Modelling, Applied Analysis And Computation (ICMMAAC-21), 05-07 August 2021, organized by Department of Mathematics (Faculty of Science), JECRC University, Jaipur, INDIA

<http://sws.jecrcuniversity.edu.in:81/ICMMAAC-21/INDEX/>

19. Chief Guest and Keynote speaker to International Conference on Science Technology and Management ICSTM 2021, Forum for Interdisciplinary Research in Mathematical Sciences, Jaipur, INDIA,
July 31-August 01, 2021.

<http://icstm.online/>

20. Keynote Speaker to The 5th International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE-2021), 24-25, September, 2021, SRM Institute of Science and Technology, Delhi NCR Campus, Modinagar, India.

21. Keynote Speaker in 2nd International Conference on Sustainable Expert Systems, ICSES 2021, September 17-18, 2021, Tribhuvan University (TU), Kirtipur, Kathmandu, NEPAL.

<http://icoses.com/2021/index.html>

22. Keynote Speaker for KES-2021

25th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, 8-10 September 2021, Szczecin, POLAND

<http://kes2021.kesinternational.org/keynotes.php>

23. Keynote Speaker at Inaugural Session to GCAIA 2021 - 2nd Global Conference on Artificial Intelligence & Applications, 2021 organized by the University of Engineering & Management (UEM), 8th to 10th September, 2021, JAIPUR, INDIA.

<https://gcaia.uem.edu.in/keynote-speakers/>

24. General Chair and Invited Speaker to the 2nd International Conference on Advancements in Interdisciplinary Research (ICAIR-2021), October 29 - 31, 2021

Organized by Department of Mathematics, Dr. Bhimrao Ambedkar University, Khandari Campus, Agra, India, in association with FIRMS India.

25. Invited Speaker to The International Conference on Advances In Computer Engineering & Communication Technology (ICACET–2021), Department of IT, CSE & ECE, Aditya College of Engineering & Technology, 22nd & 23rd October, 2021, Surampalem, AP, INDIA.

<http://icacet.in/>

26. Speaker to the Fourth One Day International Seminar on Intelligent Computing (ISIC 2021) organized by the Department of Computer Science and Engineering, Assam University Silchar, in Technical Collaboration with IEEE Computational Intelligent Society Kolkata Section on 4th October 2021.

27. Keynote Speaker to 2021 International Symposium on Design Studies and Intelligence Engineering (DSIE2021), November 28, Hangzhou, CHINA.

<http://dsieconf.org/keynotes.htm>

28. Inaugural Chief Guest to Research Colloquium under the thrust area group E-Mobility, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Bengaluru Campus in association with IEEE PELS & IES Bangalore chapter and IEEE PES and IAS Jt student branch chapter, 26-27 November 2021.

29. Keynote Speaker for International Conference on Computational Methods and Data Engineering (ICCMDE 2021), 25-26 November 2021, Vellore Institute of Technology-Vellore, India.

<https://vit.ac.in/iccmde/>

30. Invited Speaker to the International Workshop on "Modern Mathematical Methods and High-Performance Computing in Science & Engineering (MMHPC 2021)", November 23-24, 2021, organized by Anand International College of Engineering, Jaipur.

<http://mmhpc.ir/#>

31. Part of the online Faculty Development Programme (FDP) on 18 November 2021 on the theme " Modern Trends in Manufacturing Processes and Control Techniques in Renewable Energy System ", organized by Department of Mechanical Engineering in cooperation with Electrical Engineering Department NIT DELHI with the talk „Advanced Research for Renewable Energy Systems”

32. Keynote Speaker to International Conference On Computational Intelligence - ICCI 2021, (Exploring the Power of Computational Intelligence), December 27-28, 2021, Pune, INDIA.

Organized by : Indian Institute of Information Technology Pune and Soft Computing Research Society.

<https://www.icci2021.in>

33. Keynote Speaker to First International Conference on Information and Communication Technology (ICICT) 2021, 23-24 DECEMBER 2021, organized by, Department of Information Technology, Sikkim Manipal Institute of Technology, INDIA.

<https://icict.smtech.in>

<https://icict.smtech.in/docs/KeyNoteDetails.pdf>

34. Guest of Honour to 2021 6th IEEE International Conference on Computing, Communication and Automation, jointly organized by Aurel Vlaicu University of Arad, Romania & Galgotias University, India on December 17-19, 2021 at Galgotias University Greater Noida (NCR New Delhi) India.

<http://www.iccca.in/index.htm>

35. Keynote Speaker for the 3rd International Conference on Communication and Intelligent Systems (ICCIS 2021) organized at National Institute of Technology Delhi and technically sponsored by Soft Computing Research Society, December 18, 2021.

<https://www.iccis21.scrs.in/>

36. General Chair and Keynote Speaker to 2nd International Conference on Computational Methods in Science & Technology, ICCMST 2021, organized by Department of Computer Science & Engineering and IT, Chandigarh Engineering, 17-18 December, 2021, Punjab, INDIA.

<https://iccmst2021.com/>

37. Special Address as CHIEF GUEST to 4th International IEEE Conference on Computing and Communication Technologies ICCCT'21, 17 December, 2021 to SRI SAI RAM ENGINEERING COLLEGE, DEPARTMENT OF INFORMATION TECHNOLOGY, Chennai, INDIA.

Thank you for the invitation!

<https://iccct21.org/>

38. General Chair to International Conference Modeling Simulation and Optimization, CoMSO 2021, National Institute of Technology, 16-18 December, 2021, Silchar, INDIA.

<http://comso.nits.ac.in/index.html>

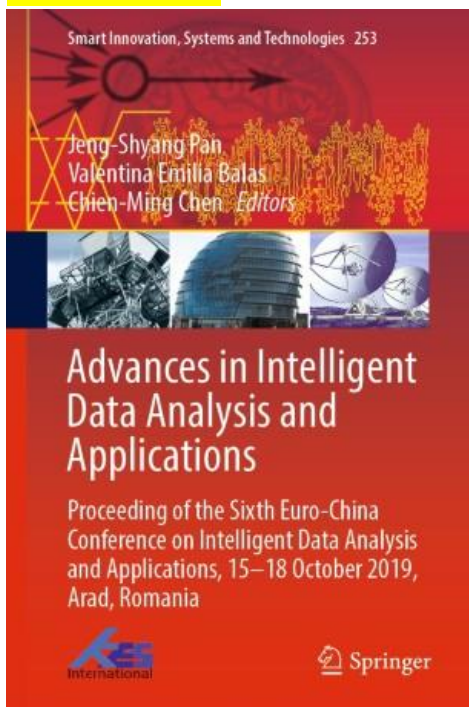
39. Keynote Speaker to 2021 IEEE Second International Conference on Technology, Engineering, Management for Societal impact using Marketing, Entrepreneurship and Talent, 2021 IEEE TEMSMET - An Interdisciplinary Virtual Conference, Symbiosis Institute of Computer Studies and Research, Pune, INDIA.

<https://temsmet2021.sicsr.ac.in/>

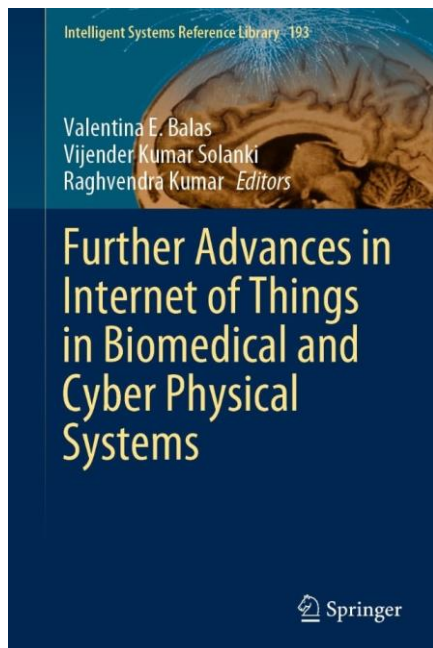
Marius M. Balas

1. Invited Speaker la St. Joseph's College of Engineering and Technology, Palai, Kerala, India: The International Conference of Artificial Intelligence and Energy Systems, 9 decembrie 2021, <https://aies.sjcetpalai.ac.in/>
2. Invited Speaker to conference ICAIR 2021, 30 October 2021, <https://www.icaairconference.com/speakers.html>
3. Keynote Speaker to Indrashil University, 9 March 2021, <https://indrashiluniversity.edu.in/brochures/iu-arena-may-2021-volume-2-issue-1.pdf>

Edited Books – Valentina si Marius Balas



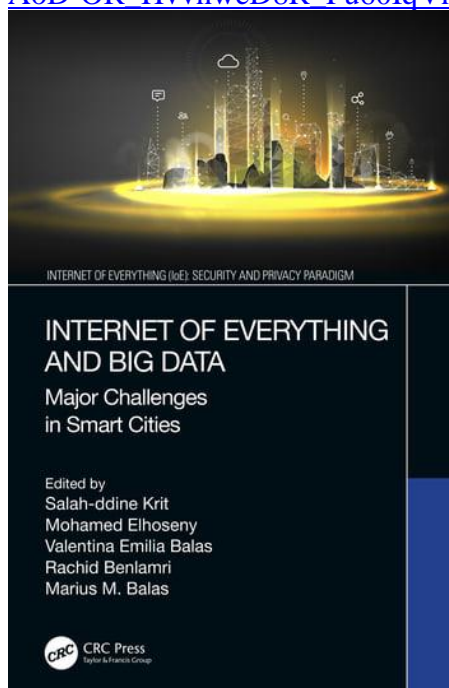
1. Further Advances in Internet of Things in Biomedical and Cyber Physical Systems
Editors: Valentina E. Balas, Vijender Solanki, Raghvendra Kumar
Congratulations to my co-Editors, authors and reviewers!
<https://www.springer.com/gp/book/9783030578343>



2. Internet of Everything and Big Data: Major Challenges in Smart Cities (Internet of Everything IoE)

Edited By Salah-ddine Krit, Mohamed Elhoseny, Valentina Emilia Balas, Rachid Benlamri, Marius M. Balas.

https://www.routledge.com/Internet-of-Everything-and-Big-Data-Major-Challenges-in-Smart-Cities/Krit-Elhoseny-Balas-Benlamri-Balas/p/book/9780367458881?fbclid=IwAR2kJu914pLExogeweHQRpx3WzjSCQS AoD-OR_HvvnweD8R_Pu60IqVhPQ



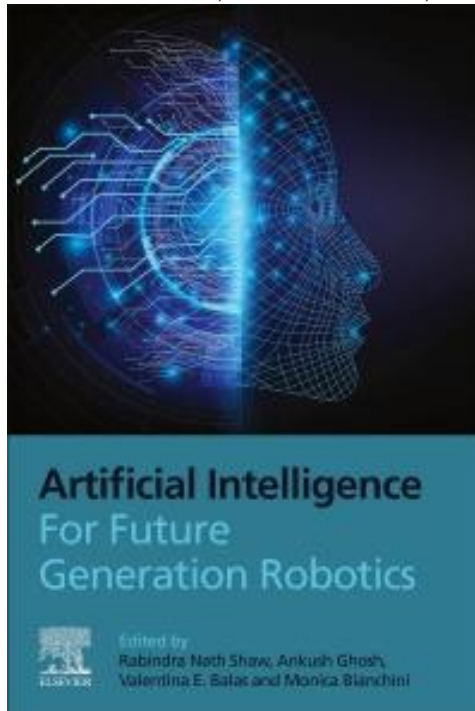
3. Artificial Intelligence for Future Generation Robotics

Editors: Rabindra Shaw, Ankush Ghosh, Valentina E. Balas, Monica Bianchini.

https://www.elsevier.com/books/artificial-intelligence-for-future-generation-robotics/shaw/978-0-323-85498-6?fbclid=IwAR31_x4G4mennjaPBzxa2TKg2u8t1wTWHjkSy68B5yMLrIETlh9a1svF-2A

Artificial Intelligence for Future Generation Robotics

Editors: Rabindra Shaw, Ankush Ghosh, Valentina E. Balas, Monica Bianchini.



4. Big Data Analytics and Intelligent Techniques for Smart Cities
Edited By: Kolla Bhanu Prakash, Janmenjoy Nayak, B T P Madhhav, Sanjeevikumar Padmanaban, Valentina Emilia Balas, Big Data Analytics and Intelligent Techniques for Smart Cities, https://www.routledge.com/Big-Data-Analytics-and-Intelligent-Techniques-for-Smart-Cities/Prakash-Nayak-Madhhav-Padmanaban-Balas/p/book/9780367753559?fbclid=IwAR18JAVBJvBmALT_XdbW6DIS_fG4tq6ZK8kaa6-DsomZ3cxMtuIU4wCQIaY



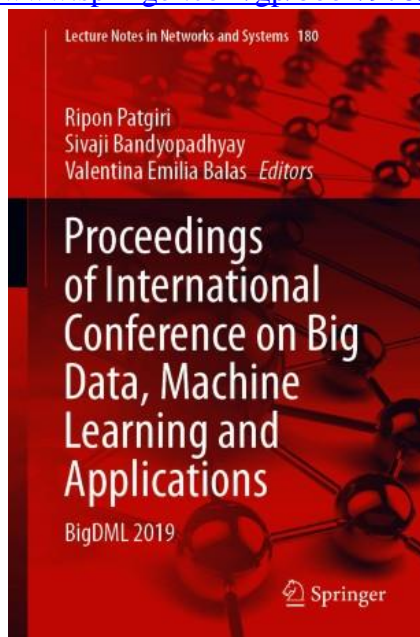
5. Proceedings of International Conference on Big Data, Machine Learning and Applications, BigDML 2019.

Editors: Ripon Patgiri - INDIA

Bandyopadhyay - INDIA

Valentina Emilia Balas - ROMANIA

<https://www.springer.com/gp/book/9789813347878>



6. Biomedical Engineering Tools for Management for Patients with COVID-19

Editors: Valentina Emilia Balas - ROMANIA

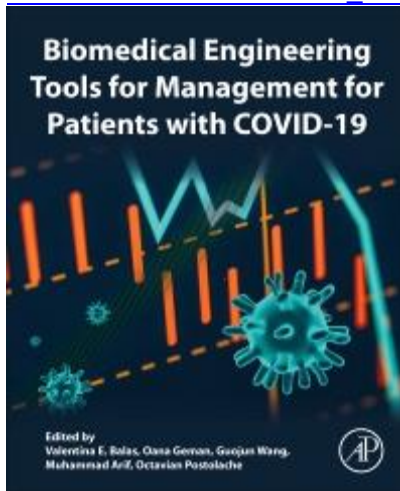
Oana Geman - ROMANIA

Guojun Wang - CHINA

Muhammad Arif - CHINA

Octavian Adrian Postolache – PORTUGAL

https://www.elsevier.com/books/biomedical-engineering-tools-for-management-for-patients-with-covid-19/balas/978-0-12-824473-9?fbclid=IwAR1bu4T9Nu_btZHkduZFKTdV1IT3Kq4JpJS9wL8PtsZExf6MpPQC7-ADLiU



7. Trends in Wireless Communication and Information Security

Proceedings of EWCIS 2020

Editors: Mithun Chakraborty - INDIA

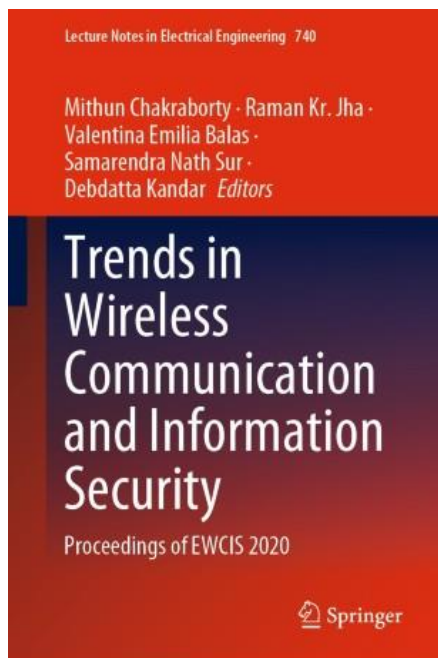
Raman Kr. Jha - INDIA

Valentina Emilia Balas - ROMANIA

Samarendra Nath Sur - INDIA

Debdatta Kandar - INDIA

<https://www.springer.com/gp/book/9789813363922>



8. Blockchain for Smart Cities

Editors: Saravanan Krishnan - INDIA

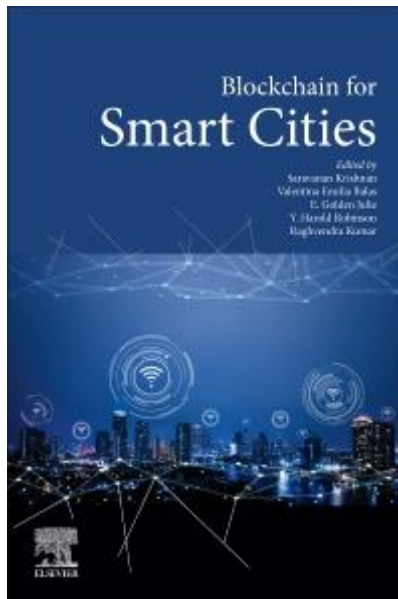
Valentina Emilia Balas - ROMANIA

E. Golden Julie - INDIA

Y. Harold Robinson - INDIA

Raghvendra Kumar - INDIA

<https://www.elsevier.com/books/blockchain-for-smart-cities/krishnan/978-0-12-824446-3?fbclid=IwAR0-LDO8fZFKdLfbBSG7zoLweq36-QBEtzGkrdOcxPBuzaY7CkMLjYwhkg>



9. Proceedings of International Conference on Computational Intelligence, Data Science and Cloud Computing, IEM-ICDC 2020

Editors:

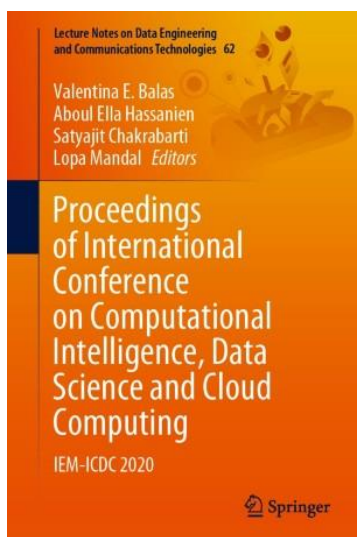
Valentina E. Balas - ROMANIA

Aboul Ella Hassanein - EGYPT

Satyajit Chakrabarti - INDIA

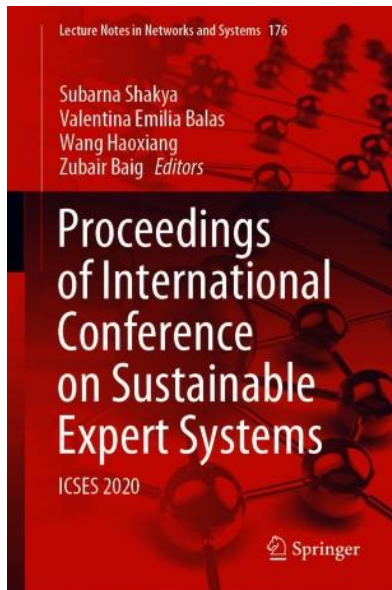
Lopa Mandal - INDIA

<https://www.springer.com/gp/book/9789813349674>

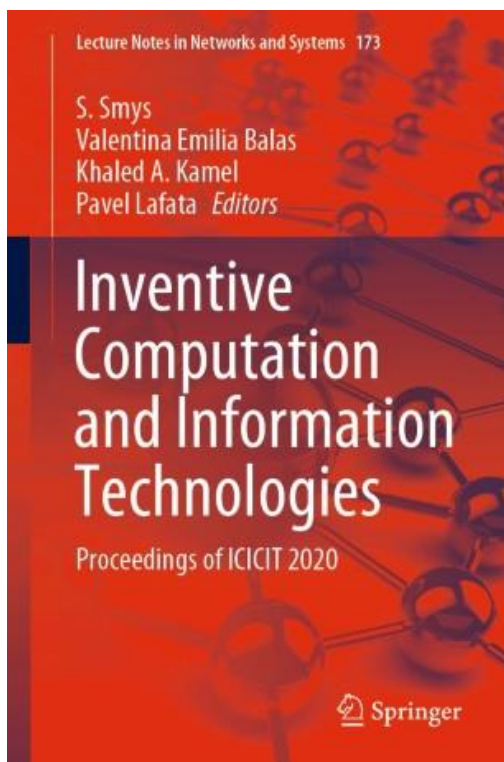


10. Proceedings of International Conference on Sustainable Expert Systems, ICSES 2020.
Editors: Subarna Shakya - INDIA, Valentina Emilia Balas - ROMANIA, Wang Haoxiang - USA, Zubair Baig - SAUDI ARABIA.

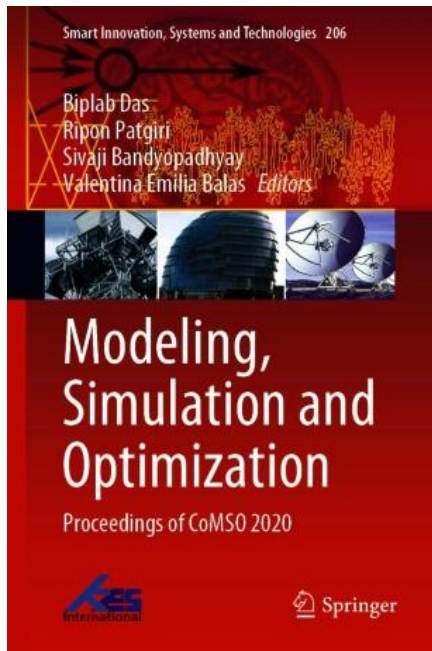
<https://link.springer.com/book/10.1007/978-981-33-4355-9>



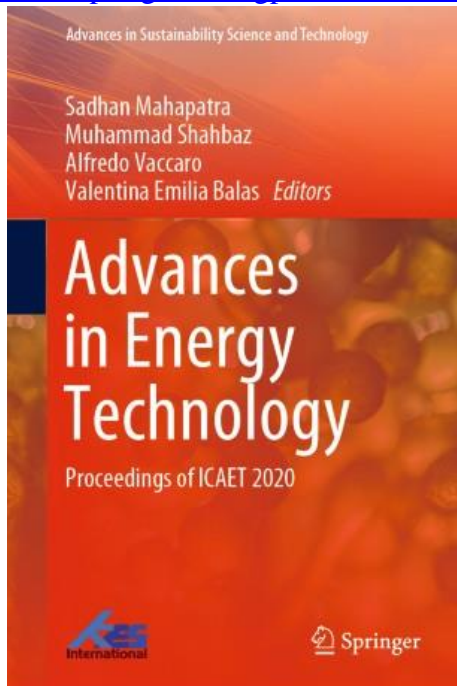
11. Inventive Computation and Information Technologies
Proceedings of ICICIT 2020
Editors: S. Smys - INDIA, Valentina E. Balas - ROMANIA
Khaled A. Kamel - USA, Pavel Lafata - CZECH REPUBLIC
<https://www.springer.com/gp/book/9789813343047>



12. Modeling, Simulation and Optimization
Proceedings of CoMSO 2020.
It was an excellent conference organized by NIT Silchar!
Editors: Biplap Das, Ripon Patgiri, Sivaji Bandyopadhyay, Valentina E. Balas.
<https://www.springer.com/gp/book/9789811598289>

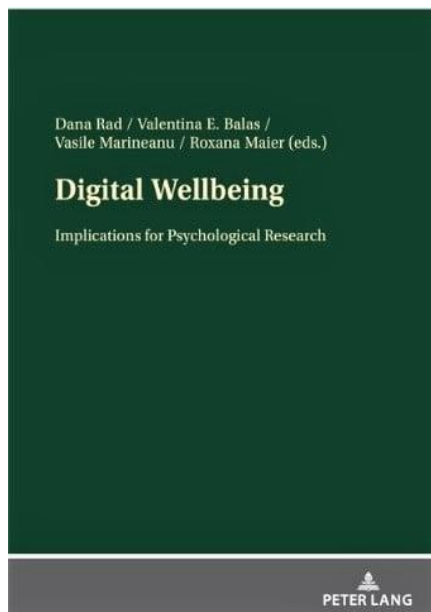


13. Advances in Energy Technology. Proceedings of ICAET 2020
Editors: Sadhan Mahapatra-INDIA, Muhammad Shahbaz-CHINA
Alfredo Vaccaro-ITALY, Valentina Emilia Balas-ROMANIA.
<https://www.springer.com/gp/book/9789811586996>

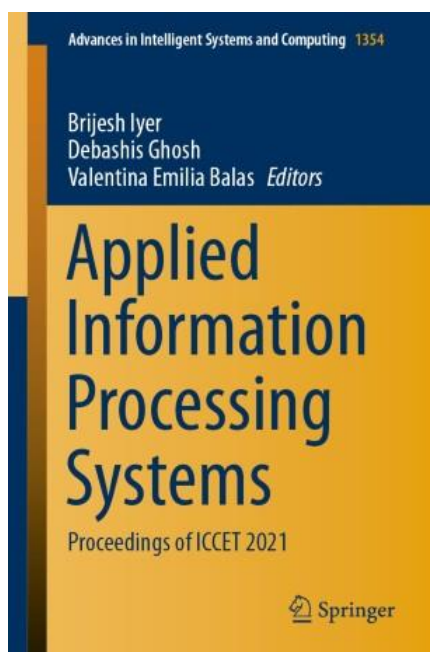


14. PETER LANG-International Academic Publisher, Berlin, 2021:
"Digital Wellbeing. Implications for Psychological Research"
Edited by:
Dana Rad - ROMANIA
Valentina Emilia Balas - ROMANIA
Vasile Doru Marineanu - ROMANIA
Roxana Maier – ROMANIA

https://storage.googleapis.com/flyers.peterlang.com/July_2021/978-3-631-85278-1_normal_English.pdf?fbclid=IwAR2kDJu914pLExogeweHQRpx3WzjSCQSAoD-OR_HvvnweD8R_Pu60IqVhPQ



15. Applied Information Processing Systems. Proceedings of ICCET 2021.
Editors: Brijesh Iyer - INDIA
Debashis Ghosh - INDIA
Valentina Emilia Balas - ROMANIA
<https://link.springer.com/book/10.1007/978-981-16-2008-9>



16. Advances in Smart Vehicular Technology, Transportation, Communication and Applications
Proceeding of the Third International Conference on VTCA, 15–18 October 2019, Arad, Romania.

Editors: Valentina Emilia Balas - ROMANIA

Jeng-Shyang Pan - CHINA

Tsu-Yang Wu - CHINA

<https://www.springer.com/gp/book/9789811612084>



17. Cybersecurity in Emerging Digital Era, First International Conference, ICCEDE 2020, Greater Noida, India, October 9–10, 2020.

Editors: Rajeev Agrawal - INDIA

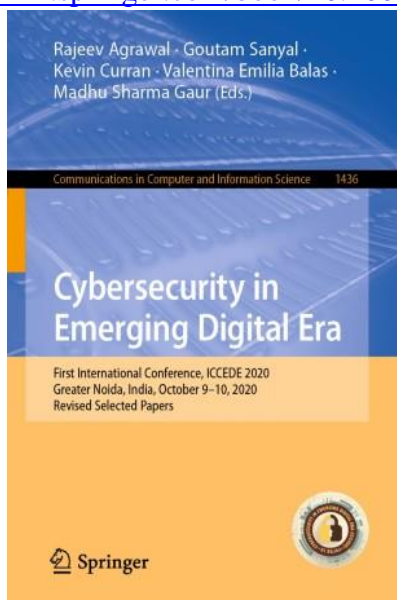
Goutam Sanyal - INDIA

Kevin Curran - UK

Valentina Emilia Balas - ROMANIA

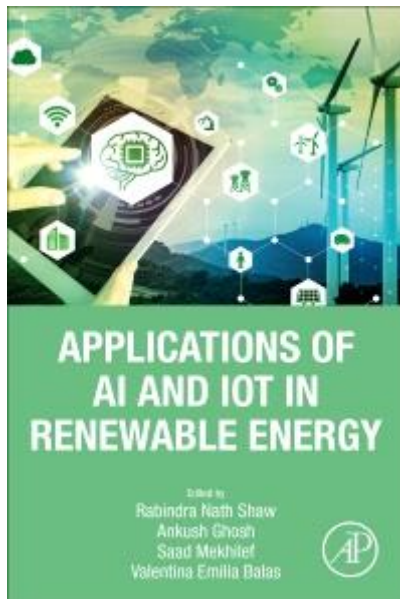
Madhu Sharma Gaur - INDIA

<https://link.springer.com/book/10.1007/978-3-030-84842-2>

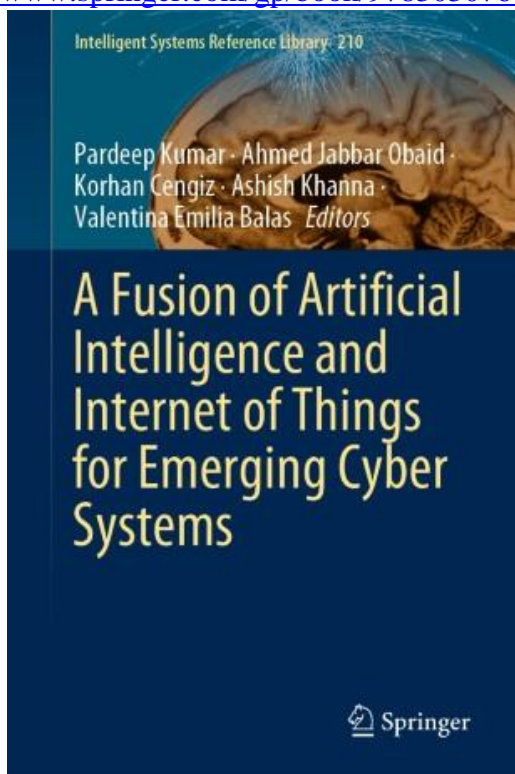


18. Applications of AI and IOT in Renewable Energy

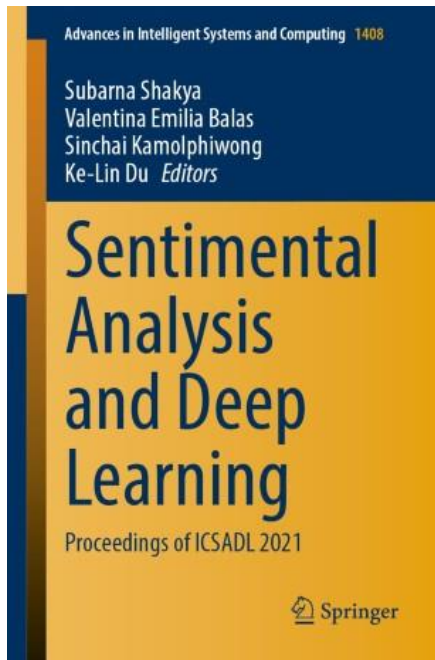
- Editors: Rabindra Nath Shaw, Ankush Ghosh, Saad Mekhilef, Valentina Emilia Balas
- Paperback ISBN: 9780323916998



19. A Fusion of Artificial Intelligence and Internet of Things for Emerging Cyber Systems
Editors: Pradeep Kumar - PAKISTAN, Ahmed Jabbar Obaid - IRAQ
Korhan Cengiz - TURKEY, Ashish Khanna - INDIA
Valentina Emilia Balas - ROMANIA
<https://www.springer.com/gp/book/9783030766528>



20. Sentimental Analysis and Deep Learning
Editors: Subarna Shakya - NEPAL, Valentina E. Balas - ROMANIA,
Sinchai Kamolphiwong - THAILAND, Ke-Lin Du - CANADA.
<https://link.springer.com/book/10.1007/978-981-16-5157-1>



21. Contemporary Issues in Communication, Cloud and Big Data Analytics. Proceedings of CCB 2020.

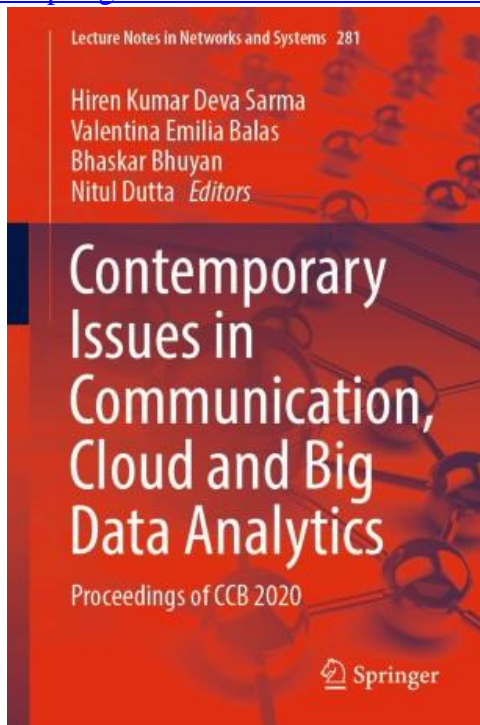
Editors: Hiren Kumar Deva Sarma - INDIA

Valentina Emilia Balas - ROMANIA

Bhaskar Bhuyan - INDIA

Nitul Dutta - INDIA

<https://rd.springer.com/book/10.1007%2F978-981-16-4244-9>



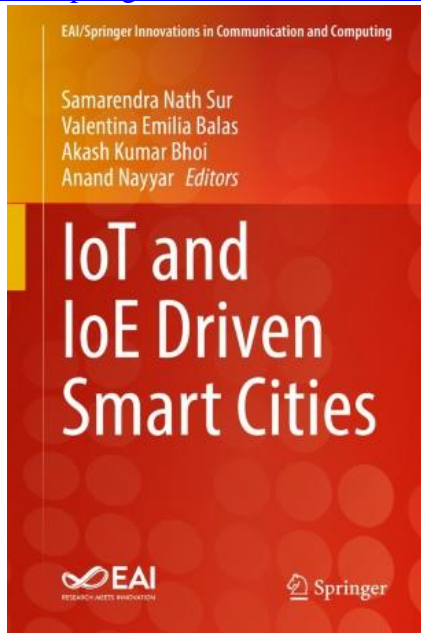
22. IoT and IoE Driven Smart Cities,
EAI/Springer Innovations in Communication and Computing Series
Editors: Samarendra Nath Sur - INDIA

Valentina Emilia Balas - ROMANIA

Akash Kumar Bhoi - INDIA

Anand Nayyar - VIETNAM

<https://link.springer.com/book/10.1007/978-3-030-82715-1>



23. Advances in Intelligent Data, Analysis and Applications

Proceeding of the Sixth Euro-China Conference on Intelligent Data Analysis and Applications, 15–18 October 2019, Arad, Romania.

Editors: Jeng-Shyang Pan - CHINA

Valentina Emilia Balas - ROMANIA

Chien-Ming Chen - CHINA

<https://rd.springer.com/book/10.1007/978-981-16-5036-9?noAccess=true>

Arad, 30.01.2022

Prof.Univ.Dr.Ing. Valentina Emilia Balas

A handwritten signature in blue ink, appearing to read 'Balas V', is positioned below the printed name.