



Conference proceedings | © 2019

Advances in Computer, Communication and Control

Proceedings of ETES 2018

[Home](#) > [Conference proceedings](#)

Editors: [Utpal Biswas](#), [Amit Banerjee](#), [Sukhomay Pal](#),
[Arindam Biswas](#), [Debashis Sarkar](#), [Sandip Haldar](#)

Presents the latest research findings in the field of computing and communication

Includes research on optimization and soft computing techniques

Serves as a reference for researchers and practitioners in academia and industry

Part of the book series: [Lecture Notes in Networks and Systems](#) (LNNS, volume 41)

31k Accesses | **76** Citations | **1** Altmetric

Sections

[Table of contents](#)

[About this book](#)

[Keywords](#)

[Editors and Affiliations](#)[About the editors](#)[Bibliographic Information](#)

This is a preview of subscription content, [access via your institution](#).

Table of contents (56 papers)

Search within book

[← Previous](#)

Page

1

of 3

[Next →](#)

Front Matter

[PDF ↓](#)

Pages i-xxiii

[Transient Voltage Analysis of a Hybrid Power System Model by Using Novel Symbiosis Organism Search Algorithm](#)

Abhik Banerjee, Pabitra Kumar Guchhait, Apurba Chatterjee, V. Mukherjee

Pages 1-11

[Rectangular Microstrip Antenna with Defected Patch Surface for Miniaturization and Improved Polarization Purity](#)

Abhijyoti Ghosh, Banani Basu

Pages 13-20

[Numerical Analysis of a Wideband Rectangular to Square Waveguide Transition for X-Band Orthomode Transducer Applications](#)

Ashmi Chakraborty Das, Santanu Dwari

Pages 21-25

[A 2.45 GHz Harmonic Suppression Filtenna for Rectenna Application](#)

Udayabhaskar Pattapu, Aggraj Gupta, Sushrut Das
Pages 27-34

[Current Differencing Transconductance Amplifier \(CDTA\) Based Current Mode Quadrature Oscillator](#)

Rupam Das, Biplab Bhowmick, Prajit Paul, Sumanta Karmakar, Khushi Banerjee
Pages 35-47

[Metamaterial Substrate and Superstrate Based Circular Microstrip Antenna](#)

Debashree Patra Karmakar, Chiranjib Goswami
Pages 49-57

[Smart Coordination Approach for Power Management with Modern PEV Technology](#)

Md. Tasinul Hoque, Md. Kamiul Hoque, A. K. Sinha
Pages 59-73

[A Cost Function Based Multi-objective Multicast Communication over WDM Optical Fiber Mesh Network](#)

Subhendu Barat, Basuki Nath Keshri, Tanmay De
Pages 75-85

[Detection and Counting of Marigold Flower Using Image Processing Technique](#)

Prabira Kumar Sethy, Bijayalaxmi Routray, Santi Kumari Behera
Pages 87-93

[A Dual Band, Dual Polarized Slot Antenna Using Coplanar Waveguide](#)

Mohammad Imroz Khan, Avinash Chandra, Sushrut Das
Pages 95-103

[Broadband Circularly Polarized Planar Slot Antenna for Bluetooth/WiMAX Application](#)

Vikash Kumar, Mohammad Imroz Khan, Avinash Chandra, Sushrut Das
Pages 105-111

[Study and Scope of Signcryption for Cloud Data Access Control](#)

Somen Debnath, Morrel V. L. Nunsanga, Bubu Bhuyan
Pages 113-126

[Comparative Analysis of Current for Specific Scattering in GaN MOSFET](#)

Kaushik Mazumdar, Praveen Kumar, Aniruddha Ghosal
Pages 127-133

[Adaptive Smart Antenna of Aperiodic Array](#)

Pooja Raj, Anupama Senapati, Jibendu Sekhar Roy
Pages 135-142

[Design of Smart Antenna Using Normalized Leaky LMS and Sign Leaky LMS Algorithms —A Comparative Study](#)

Ritika Sharma, Anupama Senapati, Jibendu Sekhar Roy
Pages 143-153

[Low-Power Subthreshold Adiabatic Logic for Combinational and Sequential Circuits](#)

Ruchi Yadav, Amit Bakshi
Pages 155-168

[A Survey Report on the Electrical Installations Adopted by the Traditional Tea Factories in North Bengal](#)

Arkabrata Dattaroy, Ankit Chakraborty, Swarnendu Mandal, Santanu Das
Pages 169-184

[Analysis and Dispersion Engineering for Generation of Ultra-flattened Dispersion in Photonic Crystal Fibers](#)

Anup Karak, Sanchita Pramanik
Pages 185-195

[Optimal Choice of Location for Establishing Production Units by Application of Fuzzy Logic](#)

P. Saha, A. Upadhyay, P. S. Dhara, M. Dey, Binayak S. Choudhury
Pages 197-206

[← Previous](#)

Page

1

of 3

[Next →](#)[Back to top ↑](#)

About this book

The book discusses the recent research trends in various sub-domains of computing, communication and control. It includes research papers presented at the First International Conference on Emerging Trends in Engineering and Science. Focusing on areas such as optimization techniques, game theory, supply chain, green computing, 5g networks, Internet of Things, social networks, power electronics and robotics, it is a useful resource for academics and researchers alike.

[Back to top ↑](#)

Keywords

ETES 2018 **Stochastic Optimization**

Game theory Green computing

Cloud computing

Heterogenous networks

Internet of things Network science

Optical fiber communication

Telecommunications Robotics

Automation Functional analysis

[Back to top ↑](#)

Editors and Affiliations

Department of Computer Science and Engineering, University of Kalyani, Kalyani, India

Utpal Biswas

Department of Electrical and Computer Engineering, National University of Singapore, Singapore, Singapore

Amit Banerjee

Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Guwahati, India

Sukhomay Pal

Department of Electronics and Communication Engineering, Asansol Engineering College, Asansol, India

Arindam Biswas

Department of Mechanical Engineering, Asansol Engineering College, Asansol,

India

Debashis Sarkar

Department of Physics, Asansol Engineering College, Asansol, India

Sandip Haldar

[Back to top ↑](#)

About the editors

Utpal Biswas received his B.E., M.E. and Ph.D. degrees in Computer Science and Engineering from Jadavpur University, India in 1993, 2001 and 2008 respectively. He served as a faculty member in the Department of Computer Science and Engineering, National Institute of Technology (NIT), Durgapur, India from 1994 to 2001. Currently, he is working as an Professor and Dean at the Department of Computer Science and Engineering, University of Kalyani, West Bengal, India. He is a co-author of 65 research articles in a number of journals, book chapters and conferences. His research interests include optical communication, ad-hoc and mobile communication, semantic web services, and E-governance.

Amit Banerjee is a Scientist ER at the Department of Electrical and Computer Engineering at the National University of Singapore. Previously he was Scientific Researcher at the Advanced Device Research Division, Shizuoka University, Japan. He was also a Research Associate at Energy Research Unit, Indian Association for the Cultivation of Science, Jadavpur, and has worked as an engineer at Farris Engineering, Gurgaon. He completed his Ph.D. in Synthesis and Optimisation of Nano-materials in 2016 at Jadavpur University, and his Master's in Physics from JNU, New Delhi. His area of interests includes microelectronics, semiconductor and solid-state devices, optoelectronics-photonics, solar cells and thin films.

He is an active reviewer, editor and advisory committee member of several international conferences. He has published in numerous high impact journals, and has filed two patents. He is currently involved in the development of instrumentation.

Sukhomay Pal is Associate Professor at the Indian Institute of Technology, Guwahati. He was a Postdoc fellow at University of Pretoria, South Africa, and was also a Co-chief Adviser and Maintenance Engineer for Pal & Das Ceramic, Asansol, West Bengal. He completed his Ph.D. on Development and Validation of Soft Computing Based Models for Pulsed Gas Metal Arc Welding Processes at the Department of Mechanical Engineering, IIT Kharagpur. He received his Master's from Bengal Engineering and Science University, West Bengal and Bachelor's from Jadavpur University. His research interests include welding process monitoring and control, tool condition monitoring, non-conventional machining process, application of artificial neural network, and genetic algorithms. He actively publishes in these areas and is also reviewer for several journals and conferences.

Arindam Biswas is Associate Professor at the Department of Electronics and Communication Engineering, Asanol Engineering College. He received his Ph.D. in the Effect of Electric Field in Ferroelectronics and Discrete Breathers in Optical Communication from the National Institute of Technology, Durgapur, his M.Tech. from Calcutta University and B.Tech. from West Bengal University. He completed his Postdoc in Optical Material at Pusan National University, South Korea. His research interests include electron devices & circuits, IMPATT THz source, and electrical engineering. He has published numerous papers in high impact journals and conferences. He also has one patent and is a reviewer and editor of a number of journals and conferences.

Debashis Sarkar is Associate Professor at the Department of Mechanical Engineering, Asansol Engineering College. He completed his Ph.D. in Mechanical Engineering at Jadavpur University. His area of research interest is maintenance and maintenance modelling. He has more than 10 years of teaching experience in areas such as engineering mechanics, graphics, primary and advanced manufacturing process and industrial engineering. He has actively published in these areas.

Sandip Haldar is Associate Professor in Asansol Engineering College. He completed his Ph.D. in Solid State Physics at Jadavpur University and at present he is working on nanomaterials. He received his M.Sc. in Physics from Calcutta University. He has published papers in numerous journals as well as conference proceedings. He has been an investigator in various research projects funded by the DST and UGC.

[Back to top](#) ↑

Bibliographic Information

Book Title	Book Subtitle	Editors
Advances in Computer, Communication and Control	Proceedings of ETES 2018	Utpal Biswas, Amit Banerjee, Sukhomay Pal, Arindam Biswas, Debashis Sarkar, Sandip Haldar
Series Title	DOI	Publisher
Lecture Notes in Networks and Systems	https://doi.org/10.1007/978-981-13-3122-0	Springer Singapore
eBook Packages	Copyright Information	Hardcover ISBN
Engineering, Engineering (R0)	Springer Nature Singapore Pte Ltd. 2019	978-981-13-3121-3 Published: 15 February 2019

eBook ISBN	Series ISSN	Series E-ISSN
978-981-13-3122-0 Published: 14 February 2019	2367-3370	2367-3389
Edition Number	Number of Pages	Number of Illustrations
1	XXIII, 563	121 b/w illustrations, 250 illustrations in colour

Topics

[Communications](#)
[Engineering,](#)
[Networks,](#)
[Mathematical](#)
[and](#)
[Computational](#)
[Engineering](#)
[Applications,](#)
[Multibody](#)
[Systems and](#)
[Mechanical](#)
[Vibrations](#)

[Back to top ↑](#)

Not logged in - 106.212.87.71

Not affiliated

SPRINGER NATURE

© 2023 Springer Nature Switzerland AG. Part of [Springer Nature](#).