

Preface

This AISC volume contains selected papers presented at the third International Conference on Intelligent Computing and Applications (ICICA 2016) held during December 21–22, 2016, at D.Y. Patil College of Engineering, Akurdi, Pune, India. ICICA 2016 is the third international conference aiming at bringing together the researchers from academia and industry to report and review the latest progresses in the cutting-edge research on various research areas of electronic circuits, power systems, renewable energy applications, image processing, computer vision and pattern recognition, machine learning, data mining and computational life sciences, management of data including big data and analytics, distributed and mobile systems including grid and cloud infrastructure, information security and privacy, VLSI, antenna, computational fluid dynamics and heat transfer, intelligent manufacturing, signal processing, intelligent computing, soft computing, web security, privacy and e-commerce, e-governance, optimization, communications, smart wireless and sensor networks, networking and information security, mobile computing and applications, industrial automation and MES, cloud computing, green IT and finally to create awareness about these domains to a wider audience of practitioners.

ICICA 2016 received 196 paper submissions including papers from two foreign countries. All the papers were peer-reviewed by the experts in India and abroad, and comments have been sent to the authors of accepted papers. Finally, 59 papers were accepted for oral presentation in the conference. This corresponds to an acceptance rate of 34% and is intended to maintain the high standards of the conference proceedings. The papers included in this AISC volume cover a wide range of topics in intelligent computing and algorithms and their real-time applications in problems from diverse domains of science and engineering.

The conference was inaugurated by Lt. Gen. Dr. S.P. Kochhar, CEO TSSC on December 21, 2016. The conference featured distinguished keynote speakers: Dr. P.N. Suganthan, NTU, Singapore; Dr. Arun Bhaskar, South Africa; Dr. B.K. Panigrahi, IIT Delhi, India; Dr. Swagatam Das, ISI, Kolkata, India; and Dr. S.S. Dash, SRM University, Chennai, India.

We take this opportunity to thank the authors of the submitted papers for their hard work, adherence to the deadlines, and patience with the review process. The quality of a refereed volume depends mainly on the expertise and dedication of the reviewers. We are indebted to the Technical Committee members, who produced excellent reviews in short time frames. First, we are indebted to the Hon'ble Dr. D.Y. Patil, Founder President, Hon'ble Dr. Sanjay D. Patil, President, Shri Satej D. Patil, Chairman, Dr. D.Y. Patil Educational Complex, Akurdi, Pune, India, for supporting our cause and encouraging us to organize the conference in their institute. In particular, we would like to express our heartfelt thanks for providing us with the necessary financial support and infrastructural assistance to hold the conference. Our sincere thanks also go to Dr. B.S. Balapgol, Principal, Dr. P. Malathi, Vice Principal, D.Y. Patil College of Engineering, Pune, for their continuous support and guidance. We specially thank Dr. Neeta Deshpande, Convener, and Dr. Kailash Shaw, Co-Convener, D.Y. Patil College of Engineering, Akurdi, Pune, for their excellent support and arrangements. We thank the International Advisory Committee Members for providing valuable guidelines and inspiration to overcome various difficulties in the process of organizing this conference. We would also like to thank the participants of this conference and IRD, India, for sponsoring. The members of faculty and students of D.Y. Patil College of Engineering, Pune, deserve special thanks because without their involvement, we would not have been able to face the challenges of our responsibilities. Finally, we thank all the volunteers who made great efforts in meeting the deadlines and arranging every detail to make sure that the conference could run smoothly. We hope the readers of these proceedings find the papers inspiring and enjoyable.

Chennai, India
Kolkata, India
New Delhi, India
December 2016

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