

Preface

This AISC volume contains the papers presented at the First International Conference on Intelligent Computing and Application (ICICA 2014) held during December 22–24, 2014, at NIT Durgapur, West Bengal, India. ICICA 2014 is the first international conference aiming at bringing together researchers from academia and industry to report and review the latest progresses in the cutting-edge research on various research areas of Image, Language 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, Electronic Circuits, Power Systems, Antenna, Computational fluid dynamics and Heat transfer, Intelligent Manufacturing, Signal Processing, Intelligent Computing, Soft Computing, Bio-informatics, Bio Computing, Web Security, Privacy and E-Commerce, E-governance, Service Orient Architecture, Data Engineering, Open Systems, Optimization, Communications, Smart wireless and sensor Networks, Smart Antennae, Networking and Information security, Machine Learning, Mobile Computing and Applications, Industrial Automation and MES, Cloud Computing, Green IT, IT for Rural Engineering, Business Computing, Business Intelligence, ICT for Education for solving hard problems, and finally to create awareness about these domains to a wider audience of practitioners.

ICICA 2014 received 144 paper submissions including two foreign countries across the globe. After a rigorous peer-review process involving 600 reviews, 70 full length articles were accepted for oral presentation at the conference. This corresponds to an acceptance rate of 48.61 % 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-world applications in problems from diverse domains of science and engineering.

The conference featured distinguished keynote speakers: Dr. P.N. Suganthan, NTU, Singapore; Dr. Swagatam Das, ISI, Kolkata, India; Prof. B.K. Panigrahi, IIT Delhi, India and Prof. B. Sikdar, Rensselaer Polytechnique Institute, USA. 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 referred volume depends mainly on the expertise and dedication of the reviewers. We are indebted to the Program Committee/Technical Committee members, who produced excellent reviews in short time frames. We would also like to thank TEQIP II for providing all the logistical support and financial assistance. First, we are indebted to NIT Durgapur, India for supporting our cause and encouraging us to organize the conference there. 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 to Prof. P. Gupta, Dean Research and Consultancy; Prof. D.K. Mandal; Prof. J.P. Sarkar; Prof. B. Halder; Col. (Retd.) P.S. Sandhu (Registrar); Prof. A.K. Bhattacharjee; Prof. R. Ghatak; Prof. K.C. Ghanta; Prof. N.K. Roy; Dr. (Mrs.) S. Roy; Prof. S. Ghosh; Mr. A.K. Chattopadhyay; Mr. U.C. Mukherjee; Mr. A. Kumar; Mr. A.K. Bhagat and Prof. T. Kumar (Director, NIT Durgapur), for their encouragement and continuous support. We thank Maurice Clerc, France; Roderich Gross, England; Kalyanmoy Deb, India; Saman Halgamuge, Australia; Jeng-Shyang Pan, Taiwan; Peng Shi, UK; Javier Del Ser, Spain; Leandro Dos Santos Coelho, Brazil; S.S. Pattanaik, India; Gerardo Beni, USA; K. Parsopoulos, Greece; Lingfeng Wang, China; Athanasios V. Vasilakos, Athens; Pei-Chann Chang, Taiwan; Chilukuri K. Mohan, USA; Saeid Nahavandi, Australia; Abbas Khosravi, Australia; Almoataz Youssef Abdelaziz, Egypt; K.T. Chaturvedi, India; M.K. Tiwari, India; Yuhui Shi, China; A. Anand, India; Dipankar Dasgupta, USA; Lakhmi Jain, Australia; X.Z. Gao, Finland; Juan Luis Fernandez Martinez, Spain; Oscar Castillo, Mexico; Heitor Silverio Lopes, Brazil; S.K. Udgata, India; Namrata Khemka, USA; G.K. Venayagamoorthy, USA; Zong Woo Geem, USA; Ying Tan, China; S.G. Ponnambalam, Malaysia and Halina Kwasnicka, Poland 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. 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.

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