

Preface

The FICTA (*Frontiers in Intelligent Computing: Theory and Applications*) is a series of conferences started in the year 2012. Since then it has become an international forum for exchanging ideas between researchers involved in intelligent computing, including both theory and applications. The fourth event in the series, *Fourth International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA 2015)* was held in Durgapur, India, during November 16–18, 2015. The conference was organized by National Institute of Technology (NIT), Durgapur and was technically co-sponsored by the Kolkata Chapter of IEEE Computational Intelligence Society.

FICTA 2015 received an overwhelming submissions covering different areas related to intelligent computing and its applications. With the help of our program committee and reviewers, these submissions went through an extensive peer-review process. Finally, we accepted only 31 % of the submissions. This volume comprises 61 of the accepted papers, which were presented in the conference. These papers provided a comprehensive overview of the current research and direction for the future works in intelligent computing. There were a total of 17 sessions, including a special session, in the event to cover these papers.

In addition to the contributed papers, the conference featured three keynotes delivered by three eminent speakers: Prof. Hisao Ishibuchi, Graduate School of Engineering, Osaka Prefecture University; Prof. Yew-Soon Ong, Center for Computational Intelligence, Nanyang Technological University, Singapore, and Prof. Sanghamitra Bandyopadhyay, Indian Statistical Institute, Kolkata, India. It also featured invited talks by three renowned speakers: Prof. Dominik Slezak, Institute of Mathematics, University of Warsaw, Poland; Prof. Pawan Lingras, Professor and Director, Saint Mary's University, Halifax, Canada, and Dr. Debanik Roy, Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE), Government of India.

No such event can be successfully organized without active help and support from many. First and foremost, we would like to thank all participants for their contributions to the conference. We would like to thank all keynote speakers, invited speakers, session chairs, and authors for their excellent support to make

FICTA 2015 a grand success. We are indebted to the program committee members and the reviewers for providing timely and quality reviews. We take this opportunity to thank National Institute of Technology, Durgapur for providing financial support and other resources to organize the conference. We are also thankful to the Department of Science and Technology (DST), Govt. of India for providing financial support. Finally, we would like to thank all the volunteers for their tireless efforts for a long time in arranging every detail to run the conference smoothly.

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