

Preface

The Faculty of Engineering, Technology and Management, University of Kalyani, India organized the First International Conference on Intelligent Computing and Communication, (ICIC2 2016), during 18–19 February 2016 at University of Kalyani. This is third International Conference organized by the Faculty of Engineering, Technology and Management, Kalyani University during last 3 years. Organizing such a mega event, covering all aspects of intelligent computing and communication in computer science and technology, data science, general science, educational research where scopes were not only limited to computer researchers but also include researchers from other fields such as mathematics, chemistry, biology, biochemistry, engineering statistics, management and all other related areas where technologies play a vital role for the society, is an enormous task.

ICIC2 2016 received a huge response in terms of submission of papers across the globe. ICIC2 received papers from various countries outside India. The Organizing Committee of ICIC2 2016 constituted a strong international program committee for reviewing papers. A double-blind review process has been adopted. Each paper has been reviewed by at least two and at most five reviewers. The decision system adopted by EasyChair has been employed and 86 papers have been selected after a thorough double-blind review process. The committee has also checked the plagiarism through professional software. In the first round of plagiarism check, we categorized papers into three groups. We send the papers directly for double-blind review where the percentage of plagiarism of the articles was less than 10 %. We categorized the papers as second category, where the percentage of plagiarism was less than 35 % and more than 10 % and the authors were asked to rewrite and resubmit the modified papers. For those who have submitted revised version we checked for plagiarism again and sent those papers for a blind review on satisfying plagiarism report less than 10 %. All other papers were rejected directly. Ultimately, 71 papers were included for the presentation in ICIC2 2016.

The proceedings of the conference will be published in one volume in *Advances in Intelligent Systems and Computing* (ISSN: 2194-5357), Springer, indexed by ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink,

and will be available at <http://www.springer.com/series/11156>. We convey our sincere gratitude to the authority of Springer for providing the opportunity to publish the proceedings of ICIC2 2016.

The proceedings of the ICIC2 2016 are a collection of high-quality 70 articles. These articles are distributed over eight sections. These are wireless sensor network; image processing and pattern recognition; biomedical image processing and bioinformatics; device system and modeling; communication networks and services; data analytics and data mining; security and cryptography; and cloud computing. The contributions received in respective sections are 6, 14, 6, 12, 5, 12, 9, and 6 papers.

We convey our esteemed gratitude to the Honorable Vice-Chancellor, Prof. (Dr.) Malayendu Saha for his extreme enthusiasm for hosting ICIC2 2016 at the University of Kalyani. Also we convey our deep sense of gratitude to the Deans, Faculty of Engineering, Technology and Management, Faculty of Science, Faculty of Arts and Commerce and Faculty of Education for their continuous support and association in this big event.

Our sincere gratitude to all keynote address presenters, invited speakers, session chairs, high officials of Computer Society of India for their gracious presence in the campus on the occasion.

The ICIC2 2016 has been co-sponsored by the DST PURSE program of Government of India of Kalyani University, UGC and Computer Society of India Division V. We express our sincere gratitude to UGC New Delhi, India and the authority of DST PURSE program, Government of India under University of Kalyani for their financial support. We express our deep gratitude to the Computer Society of India for being the Knowledge Partner and special thanks to Prof. (Dr.) S.C. Satapathy, Chairman, DIV V, Research and Development for promoting this event as CSI Division V event. We would also like to thank the program committee members for their efforts, and the reviewers for completing a big reviewing task in a short span of time. We would also like to thank the authority of NIT Durgapur, India for their immense support in checking plagiarism of the articles. Moreover, we would like to thank all the authors who submitted papers to ICIC2 2016 and made a high-quality technical program possible. Finally, we acknowledge the support received from the faculty members, scholars of Faculty of Engineering, Technology and Management, officers, staffs and the authority of University of Kalyani.

We hope that the articles will be useful for the researchers who are pursuing research in the field of computer science, information technology and related areas. Practicing technologists would also find this volume to be a good source of reference.

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