

Lecture Notes in Networks and Systems

Volume 8

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Innovations in Computer Science and Engineering

Proceedings of the Fourth ICICSE 2016

 Springer

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Preface

The volume contains 41 papers presented at the 4th International Conference on Innovations in Computer Science and Engineering (ICICSE 2016) held during 22–23 July, 2016 at Guru Nanak Institutions Campus in association with CSI Hyderabad Chapter.

The focus of the 4th ICICSE 2016 is to provide an opportunity for all the professionals and aspiring researchers, scientists, academicians and engineers to exchange their innovative ideas and new research findings in the field of computer science and engineering. We have taken an innovative approach to give an enhanced platform for these personnel, participants, researchers, students and other distinguished delegates to share their research expertise, experiment breakthroughs or vision in a broad criterion of several emerging aspects of computing industries. The conference received an overwhelming response in terms of number of submissions from different fields pertaining to innovations in the field of computer science in main tracks and special session. After a rigorous peer-review process through our program committee members and external reviewers, we accepted 41 submissions with an acceptance ratio of 0.38.

ICICSE 2016 was inaugurated by Dr. Anirban Basu, President, Computer Society of India. The guest of honors were Dr. A. Govardhan, Principal, JNTUCEH, Ms. G. Sandhya, Senior Program Manager Microsoft India, Mr. Raju Kanchibotla, Southern, Regional Vice President, CSI and Dr. Raghav Kune, Scientist, ADRIN and ISRO.

We take this opportunity to thank all keynote speakers and special session chairs for their excellent support to make ICICSE 2016 a grand success. We would like to thank all reviewers for their time and effort in reviewing the papers. Without their commitment it would not have been possible to have the important ‘referee’ status assigned to papers in the proceedings. The quality of these papers is a tribute to the authors and also to the reviewers who have guided any necessary improvement. We are indebted to the program committee members and external reviewers who have contributed towards excellent reviews and in a very short span of time. We would also like to thank CSI Hyderabad Chapter having coming forward to support us to organize this mega event.

We would also like to thank the authors and participants of this conference. Special thanks to all the volunteers for their tireless efforts. All the efforts are worth and would please us all, if the readers of these proceedings and participants of this conference rate the papers and the event inspiring and enjoyable.

Finally, we place our special sincere thanks to the press, print and electronic media for their excellent coverage of this conference.

Ibrahimpattam, India

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A Note from the Organizing Committee

Welcome to the 4th International Conference on Innovations in Computer Science & Engineering, India. On behalf of the entire organizing committee, we are pleased to welcome you to ICICSE-2016.

ICICSE, as the conference in the field, offers a diverse program of research, education, and practice-oriented content that will engage computer science engineers from around the world. The two-day core of the meeting is anchored by the research paper track. This year, the research paper track received 151 submissions. The papers underwent a rigorous two-phase peer-review process, with at least two program committee members reviewing each paper. The program committee selected 41 papers. All members of the program committee attended the meeting. These papers represent world-wide research results in computer science engineering.

Planning and overseeing the execution of a meeting of ICICSE is an enormous undertaking. Making ICICSE-2016 happen involved the combined labor of more than 50 volunteers contributing a tremendous amount of time and effort. We offer our sincere thanks to all the committee members and volunteers, and encourage you to take the opportunity to thank them if you meet them here. We would also like to thank all our sponsors who helped in making this event accessible to the Computer Science Engineering community.

Finally, we would like to thank the editorial board of Springer for agreeing to publish the proceedings and the staff at the editorial office for all their help in the preparation of the Proceedings.

Dr. H.S. Saini
Professor and Managing Director

Dr. Rishi Sayal
Professor and Associate Director

Dr. Sandeep Singh Rawat
Professor and Head-CSE

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Dr. H.S. Saini, Managing Director of Guru Nanak Institutions, obtained his Ph.D. in Computer Science. He has over 24 years of experience at university/college level in teaching UG/PG students and has guided several B.Tech., M.Tech., and Ph.D. projects. He has published/presented high-quality research papers in international, national journals and proceedings of international conferences. He has two books to his credit. Dr. Saini is a lover of innovation and is an advisor for NBA/NAAC accreditation process to many institutions in India and abroad.

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