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Computing, Analytics and Networks

First International Conference, ICAN 2017
Chandigarh, India, October 27–28, 2017
Revised Selected Papers

Editors

Rajnish Sharma
Chitkara University
Chandigarh
India

Archana Mantri
Chitkara University
Chandigarh
India

Sumeet Dua
Department of Computer Science
and Electrical Engineering
Louisiana Tech University
Ruston, LA
USA

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Preface

Chitkara University in India organized the maiden edition of the International Conference on Computing, Analytics, and Networks (ICAN 2017) during October 27–28, 2017, to address the key current issues in computer science engineering. Today’s young computer scientists and researchers are heavily exploring and exploiting the area of different forms of computing techniques such as cloud, distributive, parallel, cluster, and mobile computing etc. for their research. There are similar trends in data analytics where researchers are creating various types of statistical techniques and behavioral models to handle massive data. Besides this, security is of paramount importance in today’s connected world. Thus, building secure networks and ensuring privacy in big data and security in the cloud environment have become natural priorities for today’s computer science researchers.

The objective of ICAN is to provide a common platform to researchers working in these significant domains so they can present their impactful research work in the areas of computing, analytics, and networks. The first edition of the conference, i.e., ICAN 2017, was organized with technical support from Springer, New Delhi, in association with British Columbia Institute of Technology, Canada, NewGen Software, New Delhi, and Student Chapters of IEEE, IETE, and CSI. Around 100 delegates from five different countries attended the conference. Four keynote talks by renowned researchers from different parts of the world, one hands-on tutorial, and paper presentations in three parallel tracks were the main highlights of this conference. The keynote talks delivered during the conference were:

- “Model Predictive Optimization for Energy Storage-Based Smart Grids” by Dr. Pao-Ann Hsiung, National Chung Cheng University, Taiwan
- “Intelligent Modelling of Moisture Sorption Isotherms in Milk Protein-Rich Extruded Snacks Prepared from Composite Flour” by Dr. A.K. Sharma, ICAR-NDRI, India
- “Using Open Clinical Data to Create an Embeddable Prediction System for Hospital Stay” by Dr. Vijay Mago, Lakehead University, Canada
- “Quantum Communication – Analyzing Fundamental Building Blocks for Quantum-Based Communication” by Dr. Joseph Spring, University of Hertfordshire, UK

The hands-on tutorial entitled “Meta-Heuristic and Hyper-Hyper-Heuristic Applications for Search-Based Software Engineering Problems” was delivered by Dr. Kamal Z. Zamli, Universiti Malaysia Pahang, Malaysia.

The conference was announced in October 2016 as a twofold event – a National Symposium on Computing, Analytics, and Networks (NCAN 2017) conducted on April 15, 2017, and the International Conference on Computing, Analytics, and Networks (ICAN 2017) conducted during October 27–28, 2017. The aim of NCAN 2017 was to provide budding researchers from India with an opportunity to present their

work and obtain feedback from experts thereby preparing themselves for their more meaningful participation in ICAN 2017 later. A team of about 50 reviewers comprising leading researchers and industry professionals from all over the world reviewed the papers received for ICAN 2017. On the basis of the reviews, only 16 papers were shortlisted for oral presentation. A double-blind review process was followed and each paper was reviewed by at least three reviewers.

We are quite confident and committed to making ICAN a regular feature of Chitkara University. We look forward to receiving your quality research work for the next edition of ICAN, which will be held in 2019. In addition, Chitkara University also conducts a prominent international conference on Wireless Network and Embedded Systems (WECON). The sixth edition of WECON is to be held in November 2018. In the same year, we are also organizing ACM Compute 2018. We invite everyone working in the related areas of computer science and electronics to submit their quality research work to these conferences.

Organizing the maiden edition of an international conference with such grace and impact was challenging. We extend our sincere thanks for the tireless support and commitment of a large number of people in the background who helped us in achieving the objectives of the conference.

First and foremost, we would like to express our heartfelt gratitude to Dr. Ashok K. Chiktara, Chancellor, Chitkara University, and Dr. Madhu Chitkara, Vice Chancellor, Chitkara University, for giving us this opportunity and always motivating us to do our best to organize a high-quality conference. A major reason for the success of ICAN 2017 was Springer's association with the conference. We must thank Ms. Suvira Srivastava, Associate Editorial Director, Springer New Delhi, and her team (especially Ms. Nidhi Chandhoke) for their endless support. We thank the Technical Program Committee as well as the Advisory Committee for all their help in building a strong technical program and also helping us in getting quality research papers for the conference. We appreciate the efforts and commitment of the Reviewers Committee that resulted in the selection of very good quality papers for ICAN 2017. Thanks are also due to the local Organizing Committee from Chitkara University for their flawless handling of the conference. Most importantly, a big thanks to all the authors who submitted their research work to ICAN 2017 and to all the delegates who travelled from distant places to attend this conference. We hope to see you at the next edition of ICAN.

December 2017

Sagar Juneja
Rajnish Sharma
Archana Mantri
Sumeet Dua

Organization

International Conference on Computing, Analytics, and Networks – ICAN 2017

October 27–28, 2017 | Chitkara University, India

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