

Preface

The 3rd International Symposium on Big Data and Cloud Computing (ISBCC'2016) was held at VIT University, Chennai on 10 and 11 March 2016. As an exciting initiative in the area of big data and cloud computing, this symposium series is becoming a leading forum for disseminating the latest advances in big data and cloud computing research and development. The aim of the conference is to bring together scientists interested in all aspects of theory and practise of cloud computing and big data technology, providing an international forum for exchanging ideas, setting questions for discussion, and sharing the experience.

The symposium attracted high-quality original research papers on various aspects of big data and cloud computing. This year, we received 154 submissions. After a rigorous peer-review process undertaken by the programme committee members, 42 papers were accepted, representing acceptance rates of 27 %. We congratulate the authors of those accepted papers and sincerely thank all the submitting authors for their interest in the symposium.

The 3rd ISBCC symposium consists of eight full session presentations. All the presentations reflect perspectives from the industrial and research community on how to address challenges in big data and cloud computing. The submissions were split between various conference areas, i.e., computer security, WSN, cloud computing, image processing, big data, IOT, and artificial intelligence. Track 1, *Computer Security*, incorporates all security domains including information security, network security, cloud security and mobile security. Track 2, *Wireless Sensor Networks (WSN)*, focuses on novel approaches, quality and quantitative aspects of WSN. Track 3, cloud computing focuses on energy efficiency, scheduling and optimization. Track 4, *Image Processing*, focuses on pattern recognition, tracking, computer vision, image retrieval and object detection. Track 5, *Big Data*, incorporates data management, mining approaches, search techniques, recommendation system, data classification and social graphs. Track 6, *Internet of Things (IOT)*, focuses on key fields of IOT implementation such as healthcare systems and interactive systems; and link management. Track 7, *Artificial Intelligence*, focuses

on prediction and decision making algorithms using fuzzy theory. Track 8, *Software Engineering*, focuses on business tools, requirement analysis and metrics.

We are honoured to feature the following high-profile distinguished speakers for their inspiring and insightful keynotes:

- Dr. P.A. Subrahmanyam (FIXNIX, USA)
- Dr. Ron Doyle (IBM, USA)
- Dr. Shajulin Benedict (St. Xavier's Catholic College of Engineering, India)
- Dr. Wahiba Ben Abdessalem (Taif University, Saudi Arabia)
- Dr. Surya Putchala (ZettaMine Technologies, Hyderabad)
- Mr. Chidambaram Kollengode (DataXu Inc, India)
- Dr. Jemal H. Abawajy (Deakin University, Australia)
- Dr. Mohan Kumar (Trendwise Analytics, India)
- Dr. Md. Fokhray Hossain (Daffodil International University, Bangladesh)
- Dr. Nilanjan Dey (Techno India College of Technology, India)
- Dr. Dinesh Garg (IBM Research Laboratory India)
- Dr. Kapilan Radhakrishnan (University of Wales Trinity St. David, UK)
- Mr. P. Ravishankar (CTS, India)
- Dr. Neeran M. Karnik (Vuclip, Inc. Canada)
- Dr. B. Ravi Kishore (HCL, India)
- Dr. Prof. Md Abdul Hannan Mia (Agni Systems, Bangladesh)
- Dr. R. Venkateswaran (Persistent Systems, India)
- Dr. A. Clementking (King Khalid University, Saudi Arabia)
- Dr. V.N. Mani (DEIT, India)
- Prof. P.D. Jose (MET's School of Engineering, India)
- Ms. Kiran mai Yanamala (Freelance Consultant, India)
- Dr. Praveen Jayachandran (IBM Research, India)
- Dr. Ajay Deshpande (Rakya Technologies, India)
- Dr. Murali Meenakshi Sundaram, Consultant, CTS India
- Prof. Dr. Lorna Uden, Staffordshire University, UK
- Dr. Tulika Pandey, Department of Electronics and IT, India
- Mr. Narang N. Kishor, Narnix Technolabs Pvt. Ltd, India
- Mr. S. Kailash, CDAC, India

In addition, the symposium features workshops covering many emerging research directions in big data and cloud computing by both industry experts and academia.

We are deeply grateful to all who have contributed to this amazing technical programme in one way or another. Particularly, we profoundly appreciate the great contribution by the following international scientific committee members: Dr. P.A. Subrahmanyam (FIXNIX, USA), Dr. Ron Doyle (IBM, USA), Dr. Shajulin Benedict (St. Xavier's Catholic College of Engineering, India), Dr. Wahiba Ben Abdessalem (Taif University, Saudi Arabia), Dr. Dey (Nilanjan, Techno India College of Technology, India), Dr. Siti Mariyam Shamsuddin (Universiti Teknologi Malaysia, Malaysia), Dr. Robert James Howlett (KES

International, UK), Dr. Thomas Ditzinger (Executive Editor, Springer, Germany) and Dr. Valentina Emilia Balas (University of Arad, Romania).

We appreciate the contribution by programme committee members and many external reviewers. They reviewed and discussed the submissions carefully, critically and constructively. We thank the contribution from all our sponsors for the generous financial support. We thank all the members of the organizing committee. We also thank our volunteers without whom this mission would not be possible. Last but not least, we thank all attendees who joined us in ISBCC 2016. The attendants of the ISBCC'2016 shared the common opinion that the conference and workshops were extremely fruitful and well organized.

V. Vijayakumar
V. Neelamarayanan

Proceedings of the 3rd International Symposium on Big
Data and Cloud Computing Challenges (ISBCC - 16')

Vijayakumar, V.; Neelanarayanan, V. (Eds.)

2016, XX, 520 p. 157 illus., 104 illus. in color.,

Hardcover

ISBN: 978-3-319-30347-5