Message from the BDC 2015 General and Program Chairs

We are pleased to welcome you to the 2nd IEEE/ACM International Symposium on Big Data Computing (BDC 2015). It is organized in conjunction with 8th IEEE/ACM International Conference on Utility and Cloud Computing (UCC 2015), which is sponsored by the IEEE Computer Society and the Association for Computing Machinery (ACM).

Rapid advances in digital sensors, networks, storage, and computation along with their availability at low cost is leading to the creation of huge collections of data -- dubbed as Big Data. This data has the potential for enabling new insights that can change the way business, science, and governments deliver services to their consumers and can impact society as a whole. This has led to the emergence of the Big Data Computing paradigm focusing on sensing, collection, storage, management and analysis of data from variety of sources to enable new value and insights.

To realize the full potential of Big Data Computing, we need to address several challenges and develop suitable conceptual and technological solutions for dealing with them. These include life-cycle management of data, large-scale storage, flexible processing infrastructure, data modelling, scalable machine learning and data analysis algorithms, techniques for sampling and making trade-off between data processing time and accuracy, and dealing with privacy and ethical issues involved in data sensing, storage and processing and the resulting actions.

The second International Symposium on Big Data Computing (BDC 2015), held in conjunction with 8th IEEE/ACM International Conference on Utility and Cloud Computing (UCC 2015), December 7-10, 2015, St. Raphael Resort, Limassol, Cyprus, aims at bringing together international researchers, developers, policy makers, and users, and to provide an international forum for presenting leading research activities, technical solutions, and results on a broad range of topics related to Big Data Computing paradigms, platforms and their applications. The conference features keynotes and technical presentations.

The success of BDC 2015 is due to dedicated and high standard efforts from numerous international volunteers. We would like to express our sincere gratitude to the members of the Organizing Committee of UCC 2015 and the Program Committee of BDC. PC members have supported in peer reviewing of all submitted full papers and selection of top quality research papers for inclusion in these proceedings and presentation at the conference.

The BDC 2015 symposium received 43 submissions from 23 countries around the world: Belgium, Canada, China, Cyprus, France, Germany, Greece, India, Israel, Italy, South Korea, Kuwait, Lebanon, Morocco, Netherlands, Norway, Pakistan, Poland, Spain, Sweden, Turkey, United Kingdom, and United States of America. After peer reviewing all the submissions, the Program Committee accepted 7 top quality works as full papers, resulting in an acceptance rate of 16% for full papers. The conference also accepted 6 submissions as short papers, resulting in an acceptance rate of 13% for short papers.

We thank PC Vice Co-Chair Ilkay Altintas (University of California, San Diego, USA) and all PC members for their support in managing peer reviews. We thank external sub-reviewers for their comments on papers.

We thank Ashiq Anjum, University of Derby, UK for coordinating organization issues with UCC; and Dongfang Zhao (Illinois Institute of Technology, USA) for serving as CyberChair and managing the UCC website. We also thank colleagues from the IEEE Computer Society Press for their support in the publication of the conference proceedings in record time.

Ultimately, the success of the conference will be judged by overall experience of the delegates, and how well they have participated in the conference, learnt from and interacted with their peers at the conference, and established contacts with other researchers in their relevant fields. The Committees and the sponsors have provided the funding, the venue, and the environment...
to allow these objectives to be achieved. It is now up to all of us to ensure that the conference is an outstanding success.

Finally, we wish everyone a successful, stimulating and rewarding meeting, and look forward to seeing you again in future editions of BDC including next one (2016 in China).

Enjoy your visit to Cyprus.

**General Chair:**
Professor Rajkumar Buyya  
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**General Co-Chair:**
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School of Computer Science and Informatics,  
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