Message from BDSE2013 Chairs

Welcome to The Second International Conference on Big Data Science and Engineering (BDSE2013), Sydney, December 3-5, 2013. On behalf of the Organizing Committee of BDSE2013, we would like to express to all the participants our sincere and warm welcome in Sydney.

Big data is an emerging paradigm applied to datasets whose size is beyond the ability of commonly used software tools to capture, manage, and process the data within a tolerable elapsed time. Such datasets are often from various sources (Variety) yet unstructured such as social media, sensors, scientific applications, surveillance, video and image archives, Internet texts and documents, Internet search indexing, medical records, business transactions and web logs; and are of large size (Volume) with fast data in/out (Velocity). More importantly, big data has to be of high value (Value) and establish trust in it for business decision making (Veracity). Various technologies are being discussed to support the handling of big data such as massively parallel processing databases, scalable storage systems, cloud computing platforms, and MapReduce. Big data is more than simply a matter of size; it is an opportunity to find insights in new and emerging types of data and content, to make business more agile, and to answer questions that were previously considered beyond our reach. Distributed systems is a classical research discipline investigating various distributed computing technologies and applications such as cloud computing and MapReduce. With new paradigms and technologies, distributed systems research keeps going with new innovative outcomes from both industry and academia. For example, wide deployment of MapReduce is a distributed programming paradigm and an associated implementation to support distributed computing over large big datasets on cloud. These areas are all included in the scope of BDSE2013.

BDSE2013 consists of the main conference, one symposium and one workshops - The 2013 International Symposium on MapReduce and Big Data Infrastructure (MR.BDI 2013) and the 2013 International Workshop on Big Data and Cloud Computing in Public and Business Services (DCPIS 2013). We greatly thank the Workshop Chairs for their valuable time and effort in organizing the workshops.

BDSE 2013 is the next event in a series of highly successful International Conferences, previously held as BigDataMR-12 (Xiangtan, China November 2012), AHPCN-12 (Bradford, UK, June 2012), AHPCN-11 (Banff, Canada, September 2011), AHPCN-10 (Melbourne, Australia, September 2010), AHPCN-09 (Seoul, Korea, June 2009), AHPCN-08 (Dalian, China, September 2008). This year, BDSE is held jointly with The Sixteenth International Conference on Computational Science and Engineering (CSE2013), The Thirteenth IEEE International Conference on Computer and Information Technology (CIT2013), and The Tenth International Conference on Embedded Software and Systems (ICESS2013). BDSE2013 has 44 papers accepted plus 5 poster papers accepted. Each paper was peer reviewed by at least three program committee members. The final decision has been taken after a high quality review process. We would like to express our sincere gratitude to the Program Chairs, the Program Vice Chairs, and Program Committee members, for their effective work and great effort. We also appreciate a lot the cooperation, guidance, and help from the General Chairs, the Steering Committee, the Publicity Chairs, the Advisory Committee, the Finance Chair, and the Local Chair. The support from IEEE Computer Society, Technical Committee on Scalable Computing (TCSC), University of Technology Sydney, Australia is also greatly appreciated.

We thank all of you for participating in BDSE2013, and hope you find the conference stimulating and interesting for your research and professional activities. At the same time, we wish you will also enjoy the beautiful city of Sydney.

Program Chairs
Jinjun Chen, University of Technology, Sydney, Australia
Surya Nepal, CSIRO, Australia
Massimo Cafaro, University of Salento, Lecce, Italy

General Chairs
Jian Pei, Simon Fraser University, Canada
Xian-He Sun, Illinois Institute of Technology, USA
Xuemin Lin, University of New South Wales, Australia

Steering Chairs
Jinjun Chen, University of Technology, Sydney, Australia
Laurence T. Yang, St. Francis Xavier University, Canada