Message from the Chairs

BDSE 2014

Welcome to the Third IEEE International Conference on Big Data Science and Engineering (BDSE 2014), Beijing, China, 24-26, 2014. On behalf of the Organizing Committee of BDSE 2014, we would like to express to all the participants our sincere and warm welcome in Beijing.

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 BDSE2014.

BDSE 2014 is the next event in a series of highly successful International Conferences, previously held as BDSE2013 (Sydney, Australia, December 2013), BigDataMR-12 (Xiangtan, China November 2012), AHPCH-12 (Bradford, UK, June 2012), AHPCH-11 (Banff, Canada, September 2011), AHPCH-10 (Melbourne, Australia, September 2010), AHPCH-09 (Seoul, Korea, June 2009), AHPCH-08 (Dalian, China, September 2008). This year, BDSE is held jointly with The Thirteenth IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom 2014). BDSE2014 has 31 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, the Technical Committee on Scalable Computing (TCSC), and the University of Technology Sydney, Australia, is also greatly appreciated.

We thank all of you for participating in BDSE2014, 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 Beijing.

Jianzhong Li, Harbin Institute of Technology, China
Rajiv Ranjan, CSIRO, Australia
Eiko Yoneki, University of Cambridge, UK
Dongsheng Li, National University of Defense Technology, China
BDSE 2014 Program Chairs

Yunhao Liu, Tsinghua University, China
Nick Cercone, York University, Canada
Benjamin Wah, HKCU, China
BDSE 2014 General Chairs

Jinjun Chen, University of Technology, Sydney, Australia
Laurence T. Yang, St. Francis Xavier University, Canada
BDSE 2014 Steering Chairs