Title:

Big Data and Data Analysis

Abstract:

Big Data addresses the challenge to store, search, share, learn, and analyze massive datasets in forms of structured or unstructured data. The effective process, learn, and analysis of the Big Data has been evidenced for bringing us substantial commercial benefits for a variety of applications. The open issues include Big Data-inspired computing, networks, systems, learning, and applications. This workshop aims to provide an informative forum for discussions and presentation of new ideas and research results on the broad topics of Big Data Research, Development, and Applications.

Scope and Topics:

Authors are invited to submit original technical papers covering but not limited to the topics of interest listed below:

- ✧ Innovative techniques for IoT infrastructure security
- ✧ Theoretical and Computational Models for Big Data
- ✧ Architectures and Designs of Big Data Processing Systems
- ✧ Machine Learning Theory for Big Data
- ✧ Big Data Streaming Platforms for real-time data analytics
- ✧ Cloud Computing for Big Data
- ✧ High Performance Platforms for Big Data
- ✧ System Architectures, Platforms, Design, and Deployment for Big Data
- ✧ Energy-efficient Computing for Big Data
- ✧ Advanced Database and Web Applications for Big Data
- ✧ Data Model and Structure for Big Data
- ✧ Data Preservation and Provenance
- ✧ Data Management for Mobile, Pervasive and Grid Computing
- ✧ Scientific and Social Data Management and Workflow Optimization
- ✧ Big Data Search Architecture, Scalability, and Efficiency
- ✧ Algorithms and Architectures for Big Data Search, Mining and Processing
- ✧ Search, Store and Process Big Data in Distributed, Grid and Cloud Systems
- ✧ High Performance and Efficiency Data Cryptography
- ✧ Privacy Threats Analysis for Big Data Systems
- ✧ Trust, Reputation and Recommendation Systems for Big Data Systems
- ✧ Big Data Applications and Software in Science, Engineering, Healthcare, Agriculture, etc

Program Committee Chairs:

Pingzeng Liu, Shandong Agricultural University, China

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Pingzeng Liu is a professor of the College of Information Science and Engineering at Shandong Agricultural University, director of the center for agricultural big data research, agricultural information experts of the Ministry of science and technology, Shandong Provincial Information Standards Committee experts, leader of master's point of computer science and technology director of the master tutor group of agricultural information technology. His research interests include the Internet of things architecture, agricultural Internet of things promotion and application, agricultural big data processing. He successively published more than 70 papers, applied for more than 40 patents, and obtained 26 software copyright.

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Lijuan Zheng received the B.S. and M.S. degrees in computer application from North China Electronic Power University, Baoding, China, in 2000 and 2003 respectively, and received her PhD degree in information security from Beijing Jiao Tong University of China. She is an associate professor with the School of Information Science and Technology, Shijiazhuang Tiedao University, Shijiazhuang, China. She has published more than 20 technical papers in international journals and conference proceedings. Her research interests include security protocol analysis and design, trusted computing and privacy protection. She is a member of the China Computer Federation (CCF), the supervision committee chairman of CCF Shijiazhuang branch, committee member of CCF Shijiazhuang branch.

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Cezhong Tong is currently working as a visiting scholar at Washington University in St.Louis. He is working as a research fellow. He obtained his Ph.D from Tianjin University in 2013. He has published some 20 technical papers in SCI journals. His research interests include: Pure Mathematics, data analysis

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