

# Big Data Track

## Selected Areas in Communications Symposium GLOBECOM 2017

### Symposium Co-chairs

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### Scope and Topics of Interest

This Big Data Track covers all aspects on their ideas, results, theories, visions, and experiences in big data relevant sciences, technologies, and applications. This track welcomes relevant paper submissions from researchers in academia, industry, and government, such as students, engineers, practitioners, scientists, and policy makers. This track welcomes not only original technical and scientific research results but also technical surveys in relevant topics.

The Big Data track solicits original contributions in, but not limited to, the following topical areas:

- Big data models, theories, algorithms, approaches, solutions
- Machine learning, data mining, web mining, and graph mining
- Data lifecycle • Big data practices and applications
- Big data in, with, and for communications and networking
- Big data retrieval, processing, analysis, and analytics
- Big data integration and visualization
- Big data standardization and regulation
- Big data architecture, infrastructure and platforms
- Big data maintenance, management, and operations
- Big data classifications, benchmarks and metrics
- Big data acquisition, integration, cleaning, and practices
- Big data in and for research, sciences and technologies
- Big sciences and technologies
- Big business and industries
- Big data storage and management
- Privacy protection, trust in Big Data
- Policy making and legal issues in Big Data
- Security in Big Data
- Data intensive sciences and technologies
- Big data in, with, and for cloud computing and networking
- Green issues for and by big data
- Big data semantics, scientific and knowledge discovery and intelligence
- Inquiries and programming languages for big data
- Big data placement, scheduling, and optimization
- File systems and databases for big data
- Evaluations, simulations and debugging and tools relevant to big data
- Big data for smart cities and smart homes
- Big data with and for smart grids
- Big data with Internet of Things/cyber-physical systems
- Big data with relevant signal processing techniques
- Big data for biological, biomedical, and health science and technologies

- Big data for social networks
- Big data for multimedia and image processing
- Big data for astronomy
- Big data performance analysis and large-scale deployment
- Quality of experiences and quality of services of big data
- Distributed and federated datasets
- Mobility and big data

### Short biographies of co-chairs

**Song Guo** (M'02-SM'11) received his Ph.D. in computer science from University of Ottawa. He is currently a full professor at Department of Computing, The Hong Kong Polytechnic University. Prior to joining PolyU, he was a full professor with the University of Aizu, Japan. His research interests are mainly in the areas of cloud and green computing, big data, wireless networks, and cyber-physical systems. He has published over 300 conference and journal papers in these areas and received multiple best paper awards from IEEE/ACM conferences. His research has been sponsored by JSPS, JST, MIC, NSF, NSFC, and industrial companies. Dr. Guo has served as an editor of several journals, including IEEE TPDS, IEEE TETC, TGCN, IEEE Communications, etc. He has been actively participating in international conferences as general chair and TPC chair. He is a senior member of IEEE, a senior member of ACM, and an IEEE Communications Society Distinguished Lecturer.

### Sponsoring Technical Committees

- IEEE Technical Committee on Big Data (TCBD)