Call for Papers
Symposium on Selected Areas in Communications: Big Data Track

Track Chair

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Scope and Motivation

With the human society stepping into the era of data-driven digital economy, the digitization represented by big data has become one of the development trends of global information technology. Data contain valuable information that can be mined and analyzed for the understanding of the systems that produce them. The unprecedented increase in data generated by all kinds of devices urges for the constant development of communication networks to allow large amounts of data to be transferred, as well as for the improvement in data storage and processing techniques. The pursuit of more data has led to explosive growth of data scale and increased complexity of data patterns. Heterogeneity in applications requirements and data processing technologies opens avenues for research and development of new ways in dealing with the so-called "Big Data".

The Big Data Track in the Selected Areas in Communications Symposium aims to attract submissions from academia, industry, and government, welcoming new scientific and technical contributions and literature reviews on relevant Big Data topics.

Topics of Interest

The Big Data track seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Big Data acquisition, integration, cleaning, and practices
- Big Data architecture, infrastructure and platforms
- Big Data classifications, benchmarks and metrics
- Big Data for business and industries
- Big Data in and for research, science and technology
- Big Data in, with, and for communications and computing
- Big Data integration and visualization
- Big Data maintenance, management, and operations
- Big Data models, theories, algorithms, approaches, and solutions
- Big Data practices and applications
- Big Data semantics, knowledge discovery, and intelligence
- Big Data standardization and regulation

- Big Data storage and management
- Big Data with artificial intelligence
- Big Data with Internet of Things / cyber-physical systems
- Big Data with relevant signal processing techniques
- Cross-sectoral Big Data
- Evaluation, simulation, and debugging tools relevant to Big Data
- File systems and databases for Big Data
- Privacy protection, trust, and security in Big Data

Important Dates

Paper Submission: 11 October 2023
Notification: 18 January 2024
Camera Ready and Registration: 15 February 2024

How to Submit a Paper

All papers for technical symposia should be submitted via EDAS. Full instructions on how to submit papers are provided on the IEEE ICC 2024 website: https://icc2024.ieee-icc.org/

Journal Publication Opportunity

The authors of selected papers from this symposium will be invited to submit an extended version of their work for fast-track review and possible publication in the IEEE Open Journal of the Communications Society.