

The 8th IEEE International Conference on Smart Data (SmartData 2022)

Aug 22 - 25, 2022, Espoo, Finland

Smart Data

Smart data aims to filter out noise data and produce valuable data, which can be effectively used by enterprises and governments for planning, operation, monitoring, control, and intelligent decision making. Although an unprecedentedly large amount of sensory data can be collected with the advancement of the Cyber-Physical-Social systems, the key is to explore how big data can become smart data and offer intelligence. Advanced big data modeling and analytics are indispensable for discovering the underlying structures of retrieved data and further acquiring smart data.

IEEE SmartData-2022 will be held in August 2022, Espoo, Finland. It aims to promote community-wide discussions about identifying intelligent technologies and theories for harvesting smart data from big data. It will provide a high-profile, leading-edge forum for scientists, engineers and researchers to discuss and exchange novel ideas, results, experiences and work in process in all aspects of smart data.

Important Dates

Workshop Proposal: Mar. 01, 2022
Submission Deadline: ~~Apr. 01, 2022~~ ->
May. 01, 2022
Notification Due: Jun. 10, 2022
Final Version Due: Jun. 25, 2022

Organizing Committee

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IEEE SmartData-2022 Tracks and Topics

Track 1: Data Science and Its Foundations

- ✧ Foundational Theories for Data Science
- ✧ Data Classification and Taxonomy
- ✧ Data Metrics and Metrology
- ✧ Data Inference for Smart/Big Data
- ✧ Theoretical Models for Smart/Big Data

Track 2: Smart/Big Data Infrastructure and Systems

- ✧ Cloud/Cluster/Fog/Edge Computing
- ✧ Parallel Computing for Big Data
- ✧ Open Source Big Data Systems
- ✧ System Architecture and Infrastructure
- ✧ Smart/Big Data Appliance

Track 3: Smart/Big Data Storage and Management

- ✧ Data Collection, Transformation and Transmission
- ✧ Data Integration, Cleaning and Storage
- ✧ Data Query and Indexing Technologies
- ✧ Distributed File/Database Systems
- ✧ NewSQL/NoSQL for Smart/Big Data

Track 4: Smart/Big Data Processing and Analytics

- ✧ Smart/Big Data Search, Mining, and Drilling
- ✧ Machine Learning/Deep Learning/Graph Network/Meta Learning
- ✧ In-Memory/Streaming/Graph-Based Computing
- ✧ Brain/Nature-Inspired Computing
- ✧ Secure/Privacy-Preserving/Differentially Private Computing
- ✧ Federated Learning/Swarm Learning
- ✧ New Models, Algorithms and Methods for Smart/Big Data Analytics
- ✧ Visualization Analytics for Smart/Big Data

Track 5: Smart/Big Data Applications

- ✧ Smart/Big Data Applications in All Fields
- ✧ Data as a Service (DaaS)
- ✧ Security, Privacy and Trust Applications in Smart/BigData
- ✧ Smart/Big Data Opening, Sharing, and Trading
- ✧ Practices and Experiences of Smart/ Big Data Project Deployment
- ✧ Ethic Issues in Big/ Smart Data

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Paper Submission

Main conference papers are limited to 8 pages (regular paper), or 6 pages (short paper), and 2-4 pages for a poster paper following the IEEE proceedings format, and are to be submitted as PDF via the site: <https://edas.info/N29463>.

Special Issues

- ✧ IEEE Internet of Things Journal (IF: 9.471)
- ✧ ACM Distributed Ledger Technologies: Research and Practice (ACM DLT)
- ✧ Information Sciences (Elsevier) (IF: 6.795)
- ✧ IEEE Network Magazine (TBD) (IF: 10.693)
- ✧ Information Fusion (Elsevier) (TBD) (IF: 12.975)

Paper Publication

Accepted conference papers will be published by IEEE (IEEE-DL and EI indexed). At least one author of each accepted paper is required to register and present their work at the conference; otherwise, the paper will not be included in the proceedings. Selected papers, after further extensions and revisions, will be recommended to special issues. More details at the conference website: <http://www.ieee-cybermatics.org/2022/smartdata/>.