

CALL FOR PAPERS

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/stream computing platforms, and high performance/parallel computing platforms.

The 18th IEEE International Conference on Big Data Science and Engineering (BigDataSE-2024) is going to provide a prime international forum for researchers, industry practitioners and environment experts to exchange the latest fundamental advances in the state of the art and practice of Big Data and broadly related areas. The goal of this conference is to promote community-wide discussion for identifying advanced applications, technologies and theories for big data. We seek submissions of papers that invent novel techniques, investigate new applications, introduce advanced methodologies, propose promising research directions and discuss approaches for unsolved issues.

BigDataSE-2024 will be hosted in Sanya, China. Sanya, a picturesque coastal city, offers an ideal setting for the conference and provides opportunities for exploration, including visits to renowned sites such as Tianya Haijiao, Wuzhizhou Coral Island, and the beaches of Yalong Bay.

Prospective authors are invited to submit their papers to BigDataSE-2024. Accepted papers will be submitted for possible inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. The authors of selected best papers will be invited post conference to extend their contributions for special issues of prestigious journals to be planned in conjunction with the conference.

SCOPE AND TOPICS

Topics of interest include, but are not limited to:

- Novel theories, computational models, and algorithms of Big Data
- Big Data standards
- Big Data search and mining
- Big Data learning and analytics
- Big Data infrastructure, high performance /parallel computing platforms
- Big Data visualization
- Big Data curation and management
- Big Data semantics, scientific discovery and intelligence
- Big Data performance analysis and large-scale deployment
- Security, privacy, trust, and legal issues about Big Data
- Big Data vs Big Business and Big Industry
- Large data stream processing
- Large incremental datasets
 Distributed and federated datasets
- NoSQL data stores and Big Data compression

- Big Data placement, scheduling, and optimization
- Distributed file systems for Big Data
- MapReduce for Big Data processing, resource scheduling and SLA
- Performance characterization, evaluation and optimization
- and optimizationSimulation and debugging systems and
- tools for MapReduce and Big DataVolume, Velocity, Variety, Value and
- Veracity of Big Data

 Multi-source Big Data processing and
- integration

 Storage and computation management of
- Big Data
- Large-scale Big Data workflow management
 Big Data sensing and crowdsourcing
- Sensor network, social network and Big Data
- Big Data ecosystem
- Foundation models and Big Data
- Big Data applications

ORGANIZING COMMITTEE

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MORE DETAILS

Conference Website

http://ieee-aiplus.org/2024/bigdatase/

Submission Website

https://edas.info/N32630



published by IEEE. Send your proposals based on the requirements announced on the conference website to wxding@xidian.edu.cn.

WORKSHOP PROPOSAL

We invite proposals for workshops associated with the conference, addressing research areas

related to the conference. Accepted workshop papers will be included in the proceedings

PAPER SUBMISSION GUIDELINES

All papers need to be submitted electronically through the conference submission website (https://edas.info/N32630) with PDF format. The materials presented in the papers should not be published or under submission elsewhere. Each paper is limited to 8 pages (or 12 pages with over length charge) including figures and references using IEEE Computer Society Proceedings

Manuscript Templates for Conference Proceedings can be found at:

Manuscripts style (two columns, single-spaced, 10 fonts).

https://www.ieee.org/conferences_events/conferences/publishing/templates.html

Once accepted, the paper will be included into the IEEE conference proceedings published by IEEE Computer Society Press. At least one of the authors of any accepted paper is requested to register the paper at the conference.

IMPORTANT DATES













Workshop Proposal: 1 July 2024

Submission Deadline: 1 September 2024 Authors
Notification:
15 October
2024

Final
Manuscript Due:
10 November
2024

Registration
Due:
10 November
2024

Conference
Date:
17-21 December
2024