

**Call for Papers**  
The 10th IEEE International Conference  
on Big Data Computing Service and Machine Learning Applications  
(IEEE BigDataService 2024)  
**15-18 July 2024, Shanghai, China**  
<https://ieeebigdataservice.com/>

As computing systems become increasingly larger, more complex, distributed, and integrated, Big Data technologies and services are ever more vital. IEEE BigDataService 2024 provides an internationally leading forum for researchers and practitioners in academia and industry to exchange innovative ideas and share the latest results, experiences, and lessons learned in this crucial domain.

The conference will be held **in person** and will take place in **Shanghai, China** on the **15-18 July 2024**. It will consist of a main track with several topics of interest; it seeks the submission of high-quality papers in the IEEE format: full papers (up to 8 pages), short/demo papers (up to 5 pages), and posters (2 pages). The conference also welcomes **workshop proposals**. All accepted papers will be included in the proceedings. Selected papers will be invited to submit extended versions in a special issue of a peer-reviewed (SCI-Indexed) journal.

BigDataService 2024 is part of the **CISOSE 2024 congress**, and it will be co-located with IEEE SOSE 2024, IEEE Mobile Cloud 2024, IEEE DAPPS 2024, IEEE AITest 2024, and IEEE JCC 2024.

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**TOPICS OF INTEREST (INCLUDING BUT NOT LIMITED TO):**

**Big Data Analytics and Machine Learning**

- Algorithms and systems for big data search and analytics
- Machine learning for big data and based on big data
- Predictive analytics and simulation
- Visualization systems for big data
- Knowledge extraction, discovery, analysis, and presentation

**Integrated and Distributed Systems**

- Sensor networks
- Internet of Things
- Networking and protocols
- Smart Systems (such as energy efficiency systems, smart homes, smart farms, etc.)

**Big Data Platforms and Technologies**

- Innovative, concurrent, and scalable big data platforms
- Data indexing, cleaning, transformation, and curation technologies
- Big data processing frameworks and technologies
- Big data services and application development methods and tools

- Big data quality evaluation and assurance technologies
- Big data system reliability, dependability, and availability
- Open-source development and technology for big data
- Big Data as a Service (BDaaS) platform and technologies

### **Big Data Foundations**

- Foundational theoretical or computational models for big data
- Programming models, theories, and algorithms for big data
- Standards, protocols, and quality assurance for big data

### **Big Data Applications and Experiences**

- Innovative big data applications and services in industries and domains e.g. healthcare, finance, insurance, transportation, agriculture, education, environment, multimedia, social networks, urban planning, disaster management, security
- Experiences and case studies of big data applications and services
- Real-world and large-scale practices of big data

### **Particular attention will be dedicated to the following special topics:**

#### **Special Topic 1: Real-time Big Data Services and Applications**

- Models, algorithms, and technologies for real-time big data services and applications
- Experiences, practices and case studies of real-time big data services and applications

#### **Special Topic 2: Big Data Security, Privacy, Trust, and Sustainability**

- Models, algorithms and technologies for big data security and privacy
- Attacks and defenses for big data services
- Privacy-preserving processing of big data and Big Data for Security and Privacy Analysis
- Energy-aware big data storage, transfer, and usage
- AI-continuum (e.g., cloud, edge, sensors) for sustainable big data services

#### **Special Topic 3: Big Data and Analytics for Healthcare**

- Models, algorithms, and technologies of big data for healthcare
- Big data services and applications for healthcare
- Experiences, practices, and case studies of big data technologies for healthcare

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### **IMPORTANT DATES:**

Workshop proposals: 3 March 2024

Abstract submission: ~~31 March 2024~~, **7 April 2024**

Full, short, demo, and poster papers submission: ~~7 April 2024~~, **21 April 2024**

Notification of acceptance: 15 May 2024

Final Paper and Registration: 22 May 2024

Conference: 15-18 July 2024

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**PAPER SUBMISSION**

Papers must be written in English. All papers must be prepared in the IEEE double-column proceedings format. Please see the following link for details:

[http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html).

Full research papers are limited to 8 pages, short research papers and demo papers are limited to 5 pages, and posters are limited to 2 pages. All page limits include references. Authors must submit their papers at the **EasyChair** link: <https://easychair.org/conferences/?conf=bds2024>.

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**PAPER PUBLICATION**

All accepted papers will be published by IEEE Computer Society Press (EI-Index) and included in IEEE Digital Library. For publication, at least one author is required to register at the full rate and present the paper at the conference for the paper to be included in the final technical program and the IEEE Digital Library. Selected papers will be invited for extension and published in journals (SCI-Index).

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