Call for Papers

12th IEEE/ACIS International Conference on Big Data, Cloud Computing, and Data Science (BCD)

August 25-27, 2027

Beijing, China

Venue: Beijing University of Posts and Telecommunications



Important Dates

Special session proposal:	April 7, 2027
Full Paper Submission:	June 4, 2027
Acceptance Notification:	June 18, 2027
Camera-Ready Papers & Registration:	July 2, 2027
Conference Dates:	August 25-27, 2027

The **International Conference on Big Data, Cloud Computing, and Data Science** invites researchers, academics, industry professionals, and practitioners to submit original research papers, innovative applications, and emerging perspectives addressing recent advances in **big data, cloud computing, edge intelligence, artificial intelligence, and data science**, with applications across emerging and transformative technologies. The conference provides a multidisciplinary forum for researchers and professionals to exchange ideas, present novel research findings, discuss emerging technologies, and explore interdisciplinary applications of data-driven computing.

Topics of Interest

We welcome high-quality original submissions covering, but not limited to, the following topics:

Big Data and Data Analytics

- Big Data Analytics and Architectures
- Data Mining and Knowledge Discovery
- Statistical learning, and large-scale analytics
- Data Fusion and Real-Time Data Analytics
- Large-Scale Data Processing and Analytics
- Distributed Data Science and Data Management
- Data Quality, Integration, and Governance
- Graph Analytics and Network Data
- High-Performance Data Analytics
- Data Visualization and Decision Support
- Multimodal Data Analytics
- Quantum Analytic

Cloud, Edge, and Distributed Computing

- Cloud Computing Architectures and Services
- Cloud-Native Computing
- Edge Intelligence and Fog Computing
- Cloud-Edge-IoT Integration
- Serverless and Distributed Computing
- Resource Management and Optimization
- Cloud Orchestration and Virtualization
- Cloud Security and Privacy
- Multi-Cloud and Hybrid-Cloud Environments
- Energy-Efficient and Sustainable Cloud Computing

Artificial Intelligence and Machine Learning

- Machine Learning and Deep Learning for Big Data
- Generative AI and Large Language Models for Big Data
- Multimodal Big data Analytics
- Distributed and Federated Computing for Big Data Processing
- Explainable and Trustworthy AI Big Data Analytics
- AI Optimization and Efficient AI for Big Data and Cloud Computing
- Agentic AI and Intelligent Big Data Autonomous Agents
- LLM-Based Agents for Big Data Decision-Making
- Trustworthy, Explainable, and Safe Agentic AI for Big Data
- AI for Autonomous and Intelligent Big Data Systems

Data Science and Applications

- Data-Driven Decision-Making and Intelligent Analytics
- Statistical Learning and Data Modeling
- Data Visualization and Visual Analytics
- Time-Series Analysis and Forecasting
- Healthcare and Biomedical Data Science
- Smart Cities and Intelligent Big Data Infrastructure
- Intelligent Transportation and Autonomous Vehicles
- UAVs and Aerial Autonomous Systems with Big Data Analytics
- Big Data Analytics for Robotics Systems
- Business, Economics, and Financial Big Data Analytics
- Industrial Automation and Intelligent Manufacturing with Big Data
- Environmental Monitoring and Sustainable Big Data Systems
- Big Data Energy Analytics
- Digital-Twin-Enabled Big Data Applications

Security, Privacy, and Resilience

- Big Data Security and Privacy
- Cloud and Edge Security
- Data Privacy, Access Control, and Security Analytics
- Adversarial Machine Learning for Big Data Security
- AI-Driven Cybersecurity and Big Data Security Analytics
- Big Data Analytics for IoT and Cyber-Physical Systems Security
- Security of Agentic Systems for Big Data
- AI-Enabled Threat Intelligence and Big Data Analytics
- Blockchain for Big Data Security and Analytics

- Secure and Resilient Distributed Big Data Systems

Submission Types

- Full Paper
- Short Paper
- Special Session Paper (invitation only)

Submission Instructions

Authors are invited to submit original, unpublished research papers describing significant contributions, novel methodologies, systems, applications, or experimental results. Submissions demonstrating interdisciplinary applications of big data, cloud computing, edge intelligence, artificial intelligence, and data science are particularly encouraged.

The conference welcomes both theoretical and applied research, including novel algorithms, architectures, frameworks, experimental studies, prototypes, datasets, and real-world applications. Authors who are interested in the above topics can submit their unpublished work to BCD 2027 conference via Easychair. Simultaneous submission to a journal or another conference with refereed proceedings is not allowed.

Submissions must adhere to the following guidelines:

- Papers must be formatted using IEEE Conference templates file without altering margins or the font point.
- The maximum length is 8 pages for a regular paper and is 4 pages for a short paper (including references).
- Proofs omitted due to space constraints must be placed in an appendix to be read by the program committee members at their discretion.
- Please put the “BCD2027:” in front of your paper title.

Best Paper Award

Conference officers will select papers for the Best Paper Award Awards. (To qualify for an award, the Paper must be presented at the conference.)

Publication

Proceedings will be published by IEEE Conference Publishing Services and will be submitted to be indexed by EI, INSPEC, and DBLP.

Conference officers will select outstanding papers for publication in the following journals (www.acisinternational.org):

- International Journal of Networked and Distributed Computing (IJNDC), Springer, Germany
- International Journal of Software Innovation (IJSI), IGI Global, U.S.A.
- International Journal of Big Data Intelligence and Applications (IJBDIA), IGI Global, USA
- Studies in Computational Intelligence (SCI), Springer, Germany

Organizing Committee:

General Chair
Xiaoyan Zhang, Professor, Beijing University of Posts and Telecommunications, China

Conference Chair
Wenbin Yao, Professor, Beijing University of Posts and Telecommunications, China

Program Chair
Hai Jiang, Professor, Beijing University of Posts and Telecommunications, China

Publicity Chair(s)
Quan Qian, Professor, Shanghai University, China
Tianning Zang, Professor，Institute of Information Engineering, Chinese Academy of Sciences

Registration Chair
Juanjuan Luo, Assistant Professor, Beijing University of Posts and Telecommunications, China
Xueying Wang, Assistant Professor, Beijing University of Posts and Telecommunications, China

Local Arrangement Chair
Yawen Wang, Associate Professor, Beijing University of Posts and Telecommunications, China

Finance Chair
Roger Y Lee, Central Michigan University, USA

Publication Chair
Eric Jarman, ACIS International, USA