Special Issue

Cloud Computing and Distributed Systems for Big Data

Message from the Guest Editor

This Special Issue invites original research and experience papers that advance the state of the art in converging cloud computing and distributed systems technologies to harness big data.

We welcome theoretical, experimental, and systems contributions that address, but are not limited to, the following challenges:
- Scalable storage and processing architectures for multi-modal big data (structured, semi-structured, unstructured);
- Resource management, scheduling, and elasticity in cloud–edge–IoT environments;
- Serverless and micro-services paradigms for data-intensive applications;
- Distributed machine-learning systems, including parameter servers, federated learning, and distributed deep learning;
- Data lakes, lakehouses, and federated query engines across heterogeneous clouds;
- Green and energy-efficient big-data processing (carbon-aware scheduling, renewable-powered DCs);
- Security, privacy, and trust (confidential computing, differential privacy, secure multi-party computation);
- Blockchain-empowered distributed ledgers for verifiable data sharing and auditing.

Guest Editor

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Deadline for manuscript submissions

15 April 2026

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

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