

Special Issue

Intelligent Cloud–Edge Computing Continuum for Industry 4.0

Message from the Guest Editors

This Special Issue seeks high-quality research contributions that advance the state-of-the-art in cloud and edge computing technologies specifically tailored for Industry 4.0 applications. We welcome theoretical innovations, practical implementations, and comprehensive surveys that demonstrate how these computing paradigms can effectively support the digital transformation of manufacturing and industrial processes. Topics include but are not limited to the following:

- Federated learning for collaborative AI across manufacturing sites;
- Edge AI optimization and model compression techniques;
- Intelligent workload orchestration across cloud-edge continuum;
- Digital twin synchronization in distributed environments;
- 5G-enabled ultra-low latency industrial communications;
- Blockchain-based trust management for industrial IoT;
- Autonomous resource management and self-optimization systems;
- Zero-trust security frameworks for distributed industrial networks;
- Real-time anomaly detection and predictive maintenance at the edge.

Guest Editors

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Deadline for manuscript submissions

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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 guest-edited by leading experts in selected topics of interest.

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