Special Issue

Innovations in AI and Distributed IoT-Edge-Cloud Computing for Next-Generation Networks

Message from the Guest Editors

This Special Issue is dedicated to advancing the state of the art in next-generation IoT–edge–cloud networks. We encourage submissions that present end-to-end solutions, in which algorithmic innovation and systems design co-evolve, to achieve real-world performance, efficiency, and reliability targets. **Topics of interest include, but are not limited to, the following**:

- Federated learning in decentralized edge environments;
- Deep reinforcement learning for dynamic resource management;
- Energy- or latency-aware orchestration for edge–cloud–IoT systems;
- Real-time task offloading using drones as mobile edge nodes;
- AI-driven resource allocation in heterogeneous infrastructures;
- Multimodal data fusion pipelines in distributed systems;
- Digital twins leveraging live IoT data and predictive AI models;
- Predictive workload balancing and smart task distribution using microservices;
- Self-organizing networks (SONs) for 5G/6G-integrated IoT systems;
- Urban-scale applications using AI across distributed infrastructures.

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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.

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