

Special Issue

Exploring Edge AI: Architectures, Algorithms, and the Role of Edge–Cloud Cooperation for Scalable AI Systems

Message from the Guest Editor

The rapid growth of edge computing, combined with the widespread adoption of AI technologies, has paved the way for new paradigms in distributed intelligent systems. As AI models grow in complexity and demand, the integration of edge and cloud computing becomes critical for scalable, efficient, and real-time decision making. This Special Issue aims to explore the synergies between edge AI, distributed architectures, AI algorithms, and edge–cloud collaboration. We welcome high-quality research papers that address the challenges, advancements, and applications of these technologies for scalable AI systems, particularly in the context of resource optimization, real-time processing, and intelligent decision making regarding edge computing. We welcome original, unpublished contributions related to, but not limited to, the following topics:

- Edge AI Architectures;
- AI Algorithms for Edge Computing;
- Edge–Cloud Cooperation for Scalable AI;
- Applications of Edge AI and Edge–Cloud Synergy;
- Challenges and Future Directions.

Guest Editor

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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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