Special Issue

AI-Driven Intelligent Systems in Energy, Healthcare, and Beyond

Message from the Guest Editors

Artificial intelligence (AI), in conjunction with the Internet of Things (IoT) and robotics, is advancing intelligent, autonomous, and data-centric solutions across various sectors. Notably, energy and healthcare have emerged as two of the most impactful application domains. These advancements are further empowered by progress in high-performance AI systems. Lifelong learning and self-adaptive algorithms enhance the responsiveness and robustness of AI systems in dynamic environments. This Special Issue aims to bring together cutting-edge research at the intersection of AI, high-performance computing, and robotics, with a focus on real-world intelligent applications in energy, healthcare, and beyond.

- AI-enabled energy optimization;
- IoT-based monitoring and predictive maintenance for energy systems and related domains;
- Secure and resilient AI- and IoT-enabled cyber–physical energy systems;
- High-performance AI architectures;
- Edge and embedded AI for low-latency, energy-efficient intelligence in constrained environments;
- AI-powered robotics for domain-specific applications;
- Signal and image processing.

Guest Editors

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Dr. Xiangbo Kong
Dr. Hengyi Li

Deadline for manuscript submissions

15 February 2026

Electronics

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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