

Special Issue

Empowering IoT with AI: AIoT for Smart and Autonomous Systems

Message from the Guest Editors

The Internet of Things (IoT) is revolutionizing daily life, but artificial intelligence (AI) truly unlocks its full potential. The integration of IoT and AI in the context of smart and autonomous systems introduces critical challenges for the research community. This Special Issue seeks high-quality contributions from experts in academia and industry in the fields of AIoT, machine learning, 5G networks, and big data. We solicit high-quality original papers on the development of AI models for IoT systems and the presentation of pioneering approaches and applications. The topics of interest include, but are not limited to, the following:

- Novel AIoT architectures and frameworks;
- Integration and application of 5G networks with AIoT;
- Security and privacy solutions for AIoT against malicious attacks;
- Intelligent edge/fog/cloud computing;
- AIoT-Enabled Semantic Communication;
- Distributed Collaborative Learning in AIoT;
- Robust distributed AIoT design in smart and autonomous system;

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

15 October 2025



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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.

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).