Special Issue

AI Techniques for Integrated Sensing and Communication in Future Networks

Message from the Guest Editors

This Special Issue aims to explore how AI—including machine learning, deep learning, reinforcement learning, generative AI models, and large-scale foundational models—can address key bottlenecks in ISAC system design, implementation, and deployment. The focus will span AI-driven physical layer design, resource allocation, cross-domain feature extraction, edge intelligence, semantic sensing and communication, and robust adaptation in non-stationary environments. The scope includes, but is not limited to, the following domains:

- Large model and generative AI for ISAC;
- Agentic collaborative intelligence for ISAC;
- Multimodal data fusion for ISAC enhancement;
- AI driven MIMO, massive MIMO, and holographic MIMO for ISAC;
- AI driven waveform and beamforming design for ISAC;
- AI driven resource allocation for ISAC;
- Semantic sensing and communication in ISAC system;
- AI driven near-field ISAC signal processing;
- AI driven ISAC for low-altitude economy;
- Deep learning-based spectrum sensing and dynamic spectrum access;
- AI driven interference identification and mitigation;
- Environment mapping and communication-aware perception;
- Experimental testbeds for AI driven ISAC.

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Deadline for manuscript submissions

15 February 2026

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/247463

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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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