

Special Issue

Trends and Prospects in MIMO Antennas for Multi-Functional Wireless Communications

Message from the Guest Editors

The journal's focus on electronics, wireless communications, and emerging technologies aligns perfectly with the multi-functional integration enabled by MIMO antennas. This Special Issue will attract contributions from fields such as antenna theory, RF engineering, signal processing, and AI, fostering interdisciplinary collaboration. It will also address practical challenges in hardware implementation, standardization, and scalability, which are critical for translating research into real-world applications. Research areas may include (but not limited to) the following:

- Advanced MIMO architectures for multi-functional networks;
- MIMO for localization and navigation;
- AI-driven MIMO;
- Metamaterial-based MIMO antennas, RIS/IRS;
- Flexible MIMO systems, fluid antenna systems, movable antenna systems;
- Low-cost, high-efficiency MIMO arrays;
- Signal processing and protocol design;
- Security in MIMO networks;
- MIMO antennas for vehicle-to-everything (V2X) communication, Orthogonal Time Frequency and Space (OTFS);
- MIMO antennas for drone networks;
- MIMO-enabled IoT for environmental monitoring;
- Machine learning for channel estimation, interference mitigation, and adaptive resource allocation;

Guest Editors

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Deadline for manuscript submissions

15 March 2026



Electronics

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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