Special Issue

Next-Generation Antenna Technologies for Wireless Communications and Beyond

Message from the Guest Editor

This Special Issue aims to bring together novel research and recent advancements in antenna technologies that will shape the future of wireless communications and to provide a broad framework on next-generation antennas, fostering discussions on challenges, trends, and breakthrough developments in the field. Research areas may include (but are not limited to) the following:

- Antenna designs for 5G, 6G, and beyond (massive MIMO, beamforming, reconfigurable antennas);
- Applications of metamaterial and metasurfaces on antennas;
- Dielectric and graphene-based antennas;
- AI and machine-learning-driven antenna design and optimization;
- Wearable and bio-integrated antennas for healthcare and IoT;
- Miniaturized and ultra-wideband (UWB) antennas;
- Reconfigurable intelligent surface (RIS) antennas for smart environments;
- Antenna technologies for satellite, UAV, and deep-space communications;
- Terahertz and millimeter-wave antennas for high-speed communication;
- Novel materials and fabrication techniques for enhanced antenna performance;
- Energy-efficient and self-powered antenna systems.

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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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