

Special Issue

Emerging Trends in Planar Antennas and Propagation for Mobile Communication Systems

Message from the Guest Editors

The introduction of 5G technology globally is driving radio access network densification, new network architectures, and innovative use cases with stringent performance requirements. This Special Issue aims to collect relevant papers describing the latest advances and prospects in antenna design for mobile communications. The objective of this Special Issue is to report a novel trend in the development of antennas and microwave components including active circuits and passive structures for mobile communication applications. The topic of interest covers design and modeling techniques, optimization techniques, synthesis methods, integration techniques, including but not limited to:

- 5G and beyond mobile communication
- MIMO antennas
- Antenna design challenges
- Reconfigurable antennas
- Integrated antennas for multi-wireless applications
- Mutual coupling reduction in MIMO antennas
- Fractal antennas
- Switchable antennas for wireless communication
- Miniaturization of mobile antennas
- UWB antennas for microwave imaging applications
- Microwave healthcare information systems and health informatics
- Electromagnetic compatibility
- Beamforming

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2022)



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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).