

Special Issue

Antenna and Propagation Technologies for 5G/6G Communication

Message from the Guest Editor

Antenna and propagation technologies are the backbone of 5G/6G communication, which will play a pivotal role in shaping the future of wireless networks. Antennas act as conduits for data transmission, requiring advanced designs like MIMO systems and beamforming to meet the escalating demands of increased bandwidth and energy efficiency in the 5G and emerging 6G landscape. These technologies enable higher data rates and lower latency, essential for applications ranging from augmented reality to the IoT. In parallel, propagation technologies govern the ways in which electromagnetic waves traverse different mediums, impacting signal coverage and reliability. With the advent of 5G and the impending launch of 6G, addressing challenges such as higher frequencies and diverse deployment scenarios will necessitate innovative propagation techniques like beam steering and dynamic spectrum sharing. The integration of these advancements optimizes signal propagation and mitigates interference, ensuring the efficient functioning of next-generation networks. As 5G evolves and 6G looms on the horizon, the seamless synergy between antenna and propagation technologies remains instrumental.

Guest Editor

Dr. Arpan Desai

International College of Semiconductor Technology, National Yang-Ming Chiao Tung University, Hsinchu 1001, Taiwan

Deadline for manuscript submissions

15 January 2025



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.3



mdpi.com/si/193571

Electronics
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 5.3



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



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

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Control and
Systems Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.8 days after
submission; acceptance to publication is undertaken in 2.6
days (median values for papers published in this journal in
the first half of 2024).