

## Special Issue

# Advanced and Sustainable Antenna Technologies for Sensing and Wireless Communications

### Message from the Guest Editors

This Special Issue focuses on advanced and sustainable antenna technologies to address the growing demands of next-generation wireless technologies like 5G/B5G, IoT, and sensing applications. It aims to explore innovative materials, methodologies, and designs that improve antenna efficiency. Topics of interest include eco-friendly materials, disruptive antenna designs, and the integration of machine learning (ML) and artificial intelligence (AI) to optimize performance, including placement and beamforming networks. Topics of interest for this Special Issue include, but are not limited to the following:

- Green antenna technologies
- AI- and ML-driven antenna optimization
- AI- and ML-driven sensing/imaging techniques
- Reconfigurable and intelligent antennas
- Next-generation wireless communication systems
- Satellite antennas
- Wearable and flexible antennas
- Metamaterial and holographic antennas
- Integrated sensing and communication (ISAC)
- Antennas for sensing applications
- Energy harvesting and self-powered antennas
- Wide-angle scanning arrays and full-duplex systems

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### Guest Editors

Dr. Gabriel Machado

Dr. Isaac Barros Tavares da Silva

Dr. Adnan Ahmad Cheema

Dr. Chao Gu

Dr. Muhammad Usman Hadi

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### Deadline for manuscript submissions

15 March 2026



## Electronics

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*Electronics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

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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.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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

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