

## Special Issue

# Challenges and Future Trends in Antenna Technologies for Communications and Sensing

### Message from the Guest Editor

Antennas are crucial components of any wireless communication and sensing system as the transducers coupling between signals on an electronic device and an electromagnetic wave in free space. In addition, antenna technologies have been widely used for various communications and sensing applications. The purpose of this Special Issue is to present the challenges and future trends in antenna technologies for communications and sensing. To further promote the development of this area, we invite researchers to contribute with original research manuscripts, as well as review articles, focused on recent advances in the design and performance analysis of antennas used in communications and sensing. Future research directions and open problems are also suggested. Topics of interest include, but are not limited to, the following:

- Antenna for wideband communication and sensing;
- New 5G/6G antennas;
- Antenna technologies for wireless sensor networks and IoT;
- Wide scanning antenna arrays;
- Antenna measurements;
- Sensor antennas.

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### Guest Editor

Prof. Dr. Qingsheng Zeng  
College of Astronautics, Nanjing University of Aeronautics and Astronautics, Nanjing 210016, China

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### Deadline for manuscript submissions

15 October 2026



## Sensors

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

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*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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