

Special Issue

Millimeter-Wave Antenna Arrays: Design, Challenges, and Applications

Message from the Guest Editors

The growing interest in the exploitation of the millimeter-wave domain for satisfying the increasing capacity demands of forthcoming spatial and terrestrial wireless systems has raised novel significant challenges to antenna array designers. On the one hand, the possibility to package many elements in a limited space, the need to manage specific propagation and interference conditions, and the expected implementation of IoT and Internet of Everything (IoE) paradigms, require novel processing and synthesis techniques. On the other hand, the significant attenuations that characterize the mmWave propagation environment proposes to extend or rethink well-established channel access strategies, with the purpose of exploiting the directionality of the links for enabling operations in dense network scenarios.

This Special Issue will present a comprehensive overview of the state-of-the-art multi-antenna solutions for 5G cellular systems, satellite/nanosatellite constellations, drone swarms, and WPANs/WLANs, with the aim of providing novel insights on the design, simulation, implementation, testing, and application of antenna arrays in EHF-based next-generation networks.

Guest Editors

Dr. Giulia Buttazoni
Dr. Massimiliano Comisso
Prof. Dr. Fulvio Babich

Deadline for manuscript submissions

closed (20 April 2023)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/32703

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)