

Special Issue

Advances in Microwave and Millimeter-Wave Sensing

Message from the Guest Editors

Microwave (300 MHz–30 GHz) and millimeter-wave (30–300 GHz) sensing technologies are powerful tools for non-invasive, high-resolution, and contactless measurements across diverse domains. This Special Issue highlights recent advances in theory, instrumentation, and applications, covering both fundamental research and innovative engineering solutions. We invite contributions on novel sensing principles, calibration and measurement methods, hardware and system design, and emerging applications that demonstrate the potential of these technologies.

Scope includes, but is not limited to:

- Sensing techniques such as reflectometry, radar, spectroscopy, and imaging
- System design for high-frequency sensors
- Calibration, uncertainty analysis, and metrology
- Biomedical and healthcare applications
- Industrial and environmental monitoring
- Wireless sensing and IoT integration
- Energy and power systems monitoring
- Advanced signal processing, including machine learning and AI-enhanced sensing
- Applications in security, automotive radar, smart cities, and aerospace.

If you need further information, please contact Tijana Radosavljevic (tijana.radosavljevic@mdpi.com).

Guest Editors

Dr. Andrea Cataldo

Department of Innovation Engineering (DII), University of Salento, Via Monteroni, 73100 Lecce, Italy

Dr. Emanuele Piuzei

Department of Information Engineering, Electronics and Telecommunications, Sapienza University of Rome, 00184 Rome, Italy

Deadline for manuscript submissions

30 November 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/266434

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 9.4
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)