

## Special Issue

# Short-Range Radar-Based Techniques for Remote Monitoring and Medical Related Applications

### Message from the Guest Editors

Nowadays radars are increasingly used in short-range scenarios. Emerging applications involve distance measurement (e.g., in driver-assistance systems, level measurements in tanks, engineered white canes for visually impaired people) and displacement detection (e.g., for remote monitoring of cardio-respiratory activity, building vibrations, and development of human-computer interfaces).

Radars are also used to obtain images of scenarios through walls (TWRI) and under rubble, or to track multiple people and detect fall events of elderly subjects in an indoor environment. Finally, radar imaging techniques for breast cancer and haemorrhagic brain stroke diagnosis have seen significant progress. For all these applications, various radar topologies have been proposed, including continuous-wave (CW) Doppler radars, frequency-modulated continuous-wave (FMCW) radars, ultra-wideband (UWB) pulsed radars, and UWB-modulated (M-UWB) pulse radars. In addition to conventional architectures, subharmonic, harmonic, and intermodulation radars have also been investigated.

---

### Guest Editors

Prof. Dr. Stefano Pisa

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

Dr. Giulia Sacco

UMR CNRS6164-IETR, Campus de Beaulieu, 263 Avenue du Général Leclerc, 35042 Rennes CEDEX, France

---

### Deadline for manuscript submissions

closed (15 November 2024)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/175795](https://mdpi.com/si/175795)

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