Special Issue

Biomedical Ultrasound Imaging and Sensing

Message from the Guest Editor

Medical ultrasound has become an indispensable tool in modern healthcare, offering safe, real-time, and cost-effective imaging and sensing capabilities. Emerging topics include three-dimensional imaging, dynamic functional and quantitative analysis, machine learning assisted ultrasound, and point-of-care and wearable ultrasound. This Special Issue aims to bring together original research and comprehensive reviews on the latest developments, innovative technologies, and future challenges in biomedical ultrasound imaging and sensing. Potential topics include but are not limited to:

- medical ultrasoun
- ultrasound imaging
- ultrasound-guided therapy
- wearable ultrasound
- machine learning for ultrasound
- multimodal imaging
- ultrasound transducers
- ultrasound acquisition systems
- signal and image processing
- image reconstruction

Guest Editor

Dr. Hans-Martin Schwab
Department of Biomedical Engineering, Eindhoven University of Technology, Eindhoven, The Netherlands

Deadline for manuscript submissions

1 October 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/259382

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

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

MDPI

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)