

Special Issue

Ultrasound Sensors and MEMS Devices for Biomedical Applications

Message from the Guest Editors

Ultrasound (US) sensors and microelectromechanical systems (MEMS) have gained increasing interest in the scientific community, and their applications have grown in industry and healthcare. In the biomedical field, US sensors are traditionally used for medical imaging, and although almost a century has passed since the first application of ultrasound in diagnostics, this technology is constantly evolving. Their appeal in science and research has led to advancements in transducer technology and digital electronics, resulting in improved diagnostic information. On the other hand, biomedical MEMS devices have been promoted over the past 20 years as the latest generation of miniaturized instruments, and are mainly used for cell characterization and manipulation, drug delivery, microsurgery, microtherapy, diagnostics and prevention. Given this panorama, the synergy between MEMS and ultrasound technology is of great interest to the scientific community. This Special Issue aims to gather papers demonstrating the latest developments and advancements in ultrasound sensors and MEMS devices in the biomedical field.

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Deadline for manuscript submissions

31 December 2025



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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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.

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