



an Open Access Journal by MDPI

MEMS-Based Sensors: Technology and Applications

Guest Editors:

Dr. Haoran Wen

StethX Microsystems, Inc. Atlanta, GA 30308, USA

Dr. Chong Li

Associate Professor, Department Automation and Measurement, Ocean University of China, Qingdao, China

Deadline for manuscript submissions: closed (20 November 2023)

Message from the Guest Editors

For decades, MEMS sensors have been widely used in consumer and automotive electronics due to their small size and low cost. In recent years, significant progress has been made in advancing the performance of MEMS-based sensors and extending their usage to more demanding applications. For example, MEMS inertial sensors with low noise and drift have been widely researched for autonomous vehicles and inertial navigation applications, high-sensitivity MEMS pressure sensors and acoustic sensors have shown great potentials in biomedical applications, and robust high-dynamic-range MEMS sensors have attracted a lot of attention for industrial and defense applications.

This Special Issue therefore aims to publish the latest advancements in MEMS sensor technologies and their novel applications. The topics shall cover recent improvements in MEMS sensors based on novel device designs, sensing mechanisms, material and fabrication technologies, interface architectures, and packaging techniques, as well as investigations on emerging applications of MEMS sensors including, but not limited to, system implementation, performance characterization, and feasibility evaluation.

Specialsue



mdpi.com/si/133848





an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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.

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 & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/sensors sensors@mdpi.com X@Sensors_MDPI