Special Issue

MEMS-Based Sensors: Technology and Applications

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.

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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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