

Special Issue

Recent Advances in Sensing Technologies for Automation, Process and Structural Health Monitoring

Message from the Guest Editors

Recent advancements in sensing technologies are reshaping automation, process and structural health monitoring, making the integration of intelligent sensing networks practical, feasible and scalable. This Special Issue invites contributions on the latest sensing technologies and frameworks for efficient monitoring of processes and structures across multiple sectors. We seek state-of-the-art sensing solutions, smart materials with embedded sensing capabilities, novel signal processing algorithms, and cross-disciplinary case studies that demonstrate practical implementation in real scale problems. Submissions focusing on real-world applications and their implications for sustainability, resilience, and Industry 4.0 are particularly encouraged. Potential topics include (but are not limited to) the following:

- Intelligent Sensor Networks
- Internet of Things (IoT) Enabled Sensing Solutions
- Smart Materials with Integrated Sensing Elements
- Predictive Maintenance and Condition Assessment
- Fiber Optic Sensors
- Damage Detection and Imaging Algorithms
- Reliability and Safety Engineering
- Guided Waves for Structural and Process Monitoring

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Deadline for manuscript submissions

20 November 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/227054

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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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