

Special Issue

Editorial Board Members' Collection Series: Advanced Integrated Sensing Enabling Smart Structures

Message from the Guest Editors

This Special Issue includes, but is not limited to the following topics:

- **Novel Sensing Technologies:** New materials, principles, and designs for sensors, such as piezoresistive, piezoelectric, capacitive/inductive, magnetic-based, fiber optics, MEMS, nanotechnology-based sensors, and wireless sensor networks.
- **Sensor Integration Strategies:** Integration and communication techniques for deploying sparse or dense sensor distributed networks within structures or structural components.
- **Data Acquisition and Processing for Smart Structures:** Advanced algorithms, machine learning, and artificial intelligence for real-time data interpretation, anomaly detection.
- **Powering and Communication for Integrated Sensors:** Innovative solutions for energy harvesting, low-power sensor operation, and robust wireless communication protocols in challenging environments.
- **Applications of Smart Structures:** Case studies and theoretical frameworks demonstrating the use of integrated sensing for structural health monitoring, smart cities, adaptive structures, disaster mitigation, and infrastructure resilience.
- **Challenges and Future Directions:** Discussions on automation and artificial intelligence-based monitoring.

Guest Editors

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Deadline for manuscript submissions

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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.

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