

Special Issue

Sensors for Structural Health Monitoring of Structures and Infrastructures

Message from the Guest Editors

Structural Health Monitoring (SHM) presents a systematic, objective, and predictive approach to structural assessment that enables the early detection of potential issues, informed decision-making in maintenance practices, and the enhancement of overall structural safety and durability.

This Special Issue invites contributions that address the use of innovative sensors, sensing principles, or the innovative use of traditional sensors and transducers to solve the sensing needs of a particular SHM project. Topics related to SHM include but are not limited to:

- Novel sensors.
- Optical fiber sensors.
- Smart paints.
- Luminescence-based sensing systems.
- Large strain sensors.
- Sensors for extreme environments.
- Vision-based sensors.
- IoT and cloud-linked sensors.
- Pattern recognition and deep learning with smart sensor systems.
- Self-sensing composite materials.
- Bio-inspired sensor networks.
- Self-sensing and self-healing concrete materials.

Guest Editors

Dr. Kevin Kuang

Prof. Dr. Wing Chiu

Prof. Dr. Seunghee Park

Prof. Dr. Honghu Zhu

Deadline for manuscript submissions

closed (13 March 2025)



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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di
Bari, Via Orabona 4, 70126 Bari, Italy

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