

Special Issue

Smart Sensing Technology in Structural Health Monitoring (SHM)

Message from the Guest Editor

Structural health monitoring (SHM) is essential for ensuring the safety, reliability, and long-term performance of critical infrastructure, such as bridges, buildings, and transportation networks. In recent years, smart sensing technologies have emerged as transformative tools for enhancing SHM, offering real-time data acquisition, improved accuracy, and reduced maintenance costs. This Special Issue on “Smart Sensing Technology in Structural Health Monitoring (SHM)” seeks to highlight the latest advances in sensor design, data analytics, integrated hardware–software frameworks, and artificial intelligence approaches that facilitate intelligent, automated, and efficient SHM solutions. Additionally, cutting-edge technologies such as drones, robotics, and energy-harvesting methods are of particular interest due to their potential to streamline inspection and monitoring processes, especially in hard-to-access or hazardous environments. By bringing together interdisciplinary research from both academic and industrial perspectives, this Special Issue aims to identify current challenges, propose innovative solutions, and pave the way for new frontiers in SHM.

Guest Editor

Dr. Jose Antonio Lozano-Galant

Department of Civil Engineering, Universidad of Castilla-La Mancha,
13003 Ciudad Real, Spain

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

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

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