

Special Issue

Sensors for Structure Health Monitoring in Civil Engineering

Message from the Guest Editors

Civil infrastructures are often subject to adverse factors such as aging, corrosion, vibration, and impact, which often result in structural damages, such as cracks, loss of stiffness, and reduced bearing capacity, and even structural failure if the early damages are not detected. Structural health monitoring (SHM) provides real-time information regarding any alternations in the structural safety state using onboard sensors. The application of the SHM system to civil engineering structures not only guarantees the safety and integrity of a structure at reduced maintenance costs but also provides theoretical guidance for further research and design. New and improved sensors have been developed, along with wireless technology, to provide accurate and highly efficient measurements and assist the monitoring process. This special issue aims to feature the state-of-the-art in technology and methods regarding innovative sensing technologies and their applications. Topics include, but are not limited to, the design of sensors, sensor demodulation technology, signal processing in sensor systems, signal transmission of sensors, and sensor technology and application, among others.

Guest Editors

Prof. Dr. Liang Ren

Faculty of Infrastructure Engineering, Dalian University of Technology, Dalian 116024, China

Dr. Runzhou You

School of Civil Engineering, Dalian University of Technology, Dalian 116023, China

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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

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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