Special Issue

Advanced Sensing Systems for Structural Monitoring and Damage Detection

Message from the Guest Editors

Structural health monitoring uses advanced sensing and data analytics to continuously assess infrastructure condition, detect damage early, and enable timely repairs. New technologies, like fiber optic sensors and AI algorithms, analyze real-time sensor data to identify abnormalities indicative of flaws, providing 24/7 monitoring and actionable information on both local damage and global performance. In this sense, the main objective of this Special Issue is to provide a space to present these advances, which could revolutionize the monitoring of civil infrastructure health.

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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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