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Sensors for Structure Health Monitoring in Civil Engineering

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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.



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Special Issue



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Message from the Editor-in-Chief

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