Special Issue

Structural Health Monitoring Based on Sensing Technologies in Bridge Structures

Message from the Guest Editors

As a typical transportation infrastructure, the bridge is widely used, and it is subjected to severe working conditions, including storms, snow, solarization, etc. These poor environmental issues will downgrade the construction materials (e.g., steel and concrete) of bridge structures. Therefore, it is necessary to employ effective structural health monitoring approaches (particularly sensing technologies) to detect or provide a real-time assessment of health status of the bridge structure. This Special Issue will focus on the health monitoring of bridge structures, and the topics of interest for this Special Issue include, but are not limited to, the following:

- SHM of bridge structures via vibration signals
- SHM of bridge structures via strain signals (strain gauges or fiber optics sensors)
- SHM of bridge structures via ultrasonic signals (e.g., guided waves)
- SHM of bridge structures via acoustic emission signals
- Implementation of sensors (network, wireless, etc.) for the SHM of bridge structures

For more information, please visit: mdpi.com/si/140362

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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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