Special Issue

Sensor-Based Structural Health Monitoring of Civil Infrastructure

Message from the Guest Editor

Civil infrastructure, including bridges, buildings, tunnels, power plants, and dams, plays a crucial role in our lives. It is essential to properly maintain and monitor these structures to accurately assess their age, usability, and identify potential concerns. In recent years, the research community has shown a growing interest in developing effective methods for structural health monitoring (SHM). A typical SHM system consists of a network of sensors that measure various parameters related to the structure's condition and its surrounding environment, such as temperature, stress, delamination, strain, vibration, and humidity. To ensure reliable in situ structural health monitoring, it is crucial to have accurate, durable, responsive, and long-lasting sensors. Although numerous sensor types have been developed and demonstrated, there is an increasing need for innovative, high-performance in situ sensors. We extend an invitation to researchers to submit original research articles and review articles that will contribute to the advancement of sensor technologies for structural health monitoring (SHM).

Guest Editor

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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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