Special Issue

Smart Sensing Technology for Structural Health Monitoring

Message from the Guest Editor

Structural health monitoring is critical to prevent catastrophic structural collapse and provide quantitative data for effective and affordable lifecycle structural management and maintenance. Enormous research efforts and resources have been devoted to developing reliable structural health monitoring technologies. The current two main areas are methods for effective data collection and the reliable evaluation of structural conditions from measured data. The field implementation of traditional contact-based wired sensors poses various economic and technical challenges. With the advance of the wireless sensing technology, there has been a paradigm shift toward IoT sensor technology. With the recent development of sensing and robotic technologies, smart sensing technology has attracted interest of a great many researchers and engineers, especially in computer vision techniques, IoT sensing technology, mobile sensory system, and embedded sensing technology. This Special Issue will capture the latest research and development in all areas of smart sensing technology for structural health monitoring and its practical applications.

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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