

Special Issue on
Advanced Sensing and Structural Health Monitoring

CALL FOR PAPERS

Structural health monitoring (SHM) is one of current hot topics within civil engineering due to aging of civil infrastructures in North America to all other countries. In order to realize SHM, many advanced sensors from contact-based sensors to air-coupled sensors and sensing systems such as camera sensor networks, wireless rechargeable sensor networks, and radar sensor networks have been developed.

With the advance of sensors and sensing systems technology mentioned above, many structural damage detection, localization, and quantification methods have also been developed. The purpose of this special issue is to publish high-quality research papers as well as review articles addressing recent advances on adaptive sensing in emerging sensor networks, and their practical applications to monitor civil infrastructures for SHM. Original, high-quality contributions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences are sought.

Potential topics include but are not limited to the following:

- ▶ Structural health monitoring
- ▶ Wireless sensing based monitoring of structures
- ▶ Embedded sensing system for structural health monitoring
- ▶ Big data processing and management for SHM
- ▶ New damage detection, localization, or quantification methods
- ▶ Advanced nondestructive testing methods
- ▶ Computer-vision based damage detection methods
- ▶ Advanced deep machine learning based damage detection
- ▶ Application of SHM to large-scale infrastructures
- ▶ Long-term monitoring of bridges or building systems
- ▶ Advanced linear or nonlinear filtering based system identification
- ▶ Energy-efficient SHM system
- ▶ UAV based infrastructure monitoring

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/js/asshm/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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