

Journal of Civil Structural Health Monitoring

Call for Papers:

Special Issue on “Advances in Structural Health Monitoring of Cable-Supported Bridges”

Background

Economic growth and modernization has resulted in greater demand for cable-supported bridges that are designed to carry large volumes of vehicle traffic and railways over a long span. They are often constructed along coastal areas and in or near to cities that are vulnerable to typhoons and high winds. Long-term structural health monitoring (SHM), as a cutting-edge technology, can provide better solutions for design, construction, maintenance, functionality, and safety of long-span cable-supported bridges. It monitors bridge loading conditions, assesses bridge performance, detects potential damage, and guides bridge maintenance with the utmost goals of ensuring the bridge structures function properly during their long service lives and preventing them from catastrophic failure under extreme events. Nevertheless, although a great progress has been made in the past decade, there are still some important issues not being fully addressed and some challenging issues to be solved in the near future. This special issue thus aims to provide a platform for international scientists, engineers, enterprisers, researchers and project managers to share their ideas on state-of the-art innovations, state-of-the-practice and future trends of structural health monitoring of cable-supported bridges.

Topics

Potential topics include, but are not limited to:

- Smart sensors and advanced sensor networks
- Data processing and analysis
- Load identification and structural identification
- Model updating and condition assessment
- Structural health diagnosis and prognosis
- Damage detection
- SHM-aided rating systems for bridges and bridge networks
- SHM-aided life-cycle performance assessment
- Fusion of SHM and artificial Intelligence
- Case studies

Submissions

Manuscripts must be submitted via the online submission and peer review systems at <http://CSHM.edmgr.com>. Follow the submission instructions given on this site. Please select the article type as “S.I. Advances in Structural Health Monitoring of Cable-Supported Bridges”.

Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere (except conference proceedings papers). All manuscripts are thoroughly refereed through a peer-review process.

Key Dates

Manuscript submission window: October 1, 2017 to February 1, 2018

Manuscript acceptance decision: July 1, 2018

Paper publication: November, 2018

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