

Special Issue

Innovative Condition Monitoring Methods for Civil Structures

Message from the Guest Editor

The present call for papers is aimed at making an updated sketch of the state-of-the-art in condition monitoring and damage detection for civil structures. Potential contributions to this Special Issue are within the following topics. Other topics will be eventually considered if proposed:

- Smart sensors, sensor data fusion, sensing techniques, and advanced sensor networks;
- Advanced signal processing, cleaning, filtering, and big data analysis;
- Linking measurements with damage states;
- Parameters pointing out service failures and pre-collapse states;
- Algorithms for feature extraction and automatic damage detection;
- Damage detection, localization, and tracking of modal parameters under environmental changes;
- Special applications of automated operational modal analysis;
- Machine-learning-based SHM data analysis and condition assessment for bridges;
- Dynamic identification of buildings and infrastructures;
- Applications to masonry, reinforced concrete, steel, and composite structures;
- Case histories and field tests for structure assessment or damage identification;
- New trends for the visual inspection of structures and infrastructures.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2020)



Applied Sciences

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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