Special Issue

Recent Advances in Structural Health Monitoring and Nondestructive Testing in Civil Engineering

Message from the Guest Editors

As society gets older, civil structures, a main component of society, deteriorate and require maintenance. The developed structural health monitoring (SHM) and nondestructive testing (NDT) techniques are generally implemented to numerical models, laboratory-scale structures, and real-scale structures in steps. In this Special Issue, the recent efforts and advances made for the comprehensive SHM and NDT of civil structures will be discussed. The topics of interest for this Special Issue include but are not limited to the following:

- Innovations in sensors for SHM and NDT;
- System identification of civil structures using sensors and civionics;
- Structural health diagnosis and prognosis;
- Data fusion and analytics;
- Robotic/UAV platform for structural inspection and preservation;
- Artificial intelligence for SHM and NDE;
- SHM-aided reliability analysis and evaluation of structures;
- Nondestructive testing techniques;
- Nondestructive evaluation (NDE) of characteristics of construction materials;
- Multifunctional sensing materials.

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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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