Special Issue

The Applications and Technologies of Structural Health Monitoring in Civil Structures

Message from the Guest Editors

The rapid advancement of artificial intelligence technology has made it possible to fully extract potentially useful information from this data, leading to its widespread use in structural health monitoring. However, while data-driven structural performance analysis can effectively evaluate a structure's safety state, the lack of structural physical information can limit the model's generalization capabilities and the reliability of its results. The manuscripts published in this Special Issue are expected to reflect original research and technological development on topics that include, but are not limited to, the following:

- Probabilistic model and simulation for hazard loads;New monitoring and maintenance methods for infrastructures;
- Intelligent operation and maintenance of structures;
- Applications of artificial intelligence (AI) in structural health monitoring;
- Application of digital twin technology in structural health monitoring;
- Traditional and hybrid machine learning methods;
- Big data analysis.

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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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