Special Issue

Monitoring and Reducing Structural Vibrations in Civil Engineering

Message from the Guest Editors

In recent years, the deterioration of structures caused by vibration has drawn much attention. Monitoring and reducing structural vibrations in civil engineering provides an effective method for managing civil engineering in full-life-cycle operation and maintenance. Within this context, lots of algorithms and technologies have been proposed for monitoring and reducing structural vibrations, which also emerge as a promising means for important strategic infrastructure, including long bridges, skyscrapers, etc. This Special Issue aims to publish high-quality, original research papers on cutting-edge research of vibration-based algorithms and technologies. The topics of interest include, but are not limited to, the following:

- Vibration analysis of engineering structures;
- Vibration control algorithms and technologies;
- Vibration monitoring of civil structures;
- Vibration signal processing techniques;
- Vibration-based structural health monitoring (SHM) systems;
- Integrated smart material systems and structures.

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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.

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