



Efficient Damping and Isolation Systems for Civil Structures

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Message from the Guest Editor

The development of efficient vibration damping, vibration compensation and vibration isolation systems is highly relevant considering the trend towards aesthetic designs of civil engineering structures and considering the hazardous impacts of natural disasters such as strong earthquakes or extreme weather conditions due to climate changes. To encompass this wide field of vibration problems with associated solution approaches the scope of this Special Issue is wide as well (list not exhaustive):

- Analysis of linear and nonlinear structural vibrations
- Design and material aspects of vibration dampers, compensators and isolators
- Development of new vibration dampers, compensators and isolators
- Latest developments in earthquake engineering
- Latest developments in wind engineering
- Linear and nonlinear damping, compensation and isolation of structural vibrations
- Monitoring of structural vibrations, real-time identification of structural parameters, smart monitoring systems
- Passive, adaptive and real-time controlled
- Probabilistic and risk-based designs of vibration damping, compensation and isolation systems
- Soil-structure interaction





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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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