



Structural Dynamic Analysis and Optimization Design for Multifunctional Materials

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Message from the Guest Editors

The optimization and design of the dynamic performance of engineering structures is an important issue. Dynamic performance depends on multifunctional materials and structural design. The aim of modern methods of structural performance optimization is to conduct theoretical analysis, numerical simulations, and experimental testing of materials, components, and parts of or full structures in order to promote the performance of engineering structures.

The scope and topics of this Special Issue include, but are not limited to: structural dynamic models; seismic analysis; wind-resistant analysis; vehicle–bridge coupling; damping characteristics of multifunctional materials; fatigue performance of structures; structural design and optimization; experimental and numerical analysis of modal parameter identification; and uncertainty quantification of dynamic performance.

We welcome original research papers and review articles with new insights and perspectives on pioneering developments and their applications, including case studies in civil engineering. Authors who are experts in these fields of study are invited and encouraged to submit their contributions to this Special Issue.





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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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