Special Issue

Simplified Seismic Analysis of Complex Civil Structures

Message from the Guest Editors

The seismic response of civil structures has been widely investigated over recent decades through advanced experimental testing and numerical models. Additionally, the rapid progress of technology has enabled the accurate evaluation of the seismic behavior of complex structural systems, accounting for both local and global damage mechanisms. Different approaches can be employed with the aim of capturing specific features of complex structural models. However, simplified approaches allow us to reduce the substantial effort required for modeling and analysis while ensuring a balance between accuracy and computational complexity. This Special Issue seeks to promote the exchange of ideas in recent advancements in simplified approaches, simulating the peculiarities of complex structural systems. Particularly, contributions introducing new simplified methodologies are encouraged, covering all phases of the design and assessment processes, such as the definition of geometrical and structural features, modeling assumptions, seismic and structural behavior analysis, and verification methods.

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Deadline for manuscript submissions

20 November 2025



Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/219566

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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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