Special Issue

Dynamic Response of Civil Engineering Structures under Seismic Loads

Message from the Guest Editors

In civil engineering structures such as bridges, houses, and dams, seismic loads are a crucial type of load and must be carefully considered during design; otherwise, an inadequate seismic design could lead to catastrophic consequences. Understanding how civil engineering structures respond under seismic loads is essential to the optimization of seismic design. The scope of this Special Issue includes, but is not limited to, the following topics:

- dynamic response of civil engineering structures under seismic loads;
- seismic loads laboratory/in-situ tests;
- seismic theoretical analysis and numerical simulations.

Considering your interest and involvement in this topic, we would be honored to receive a contribution from you in order to aid the success of this Special Issue. For more information, please click on the special issue link: https://www.mdpi.com/journal/buildings/special_issues/U8D1XA4I12

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Deadline for manuscript submissions

closed (15 June 2025)

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/205070

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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