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Structural Engineering in Building

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Deadline for manuscript submissions:
closed (10 April 2026)

Message from the Guest Editors

Structural Engineering in Building is an important topic for the development of safe, resilient, and sustainable infrastructure that can withstand natural hazards such as earthquakes, hurricanes, storms, floods, landslides, etc. For this reason, in order to mitigate the effects of natural hazards and permanent loads on buildings, structural engineering has constantly evolved. Nowadays, it is possible to find not only traditional masonry structures and tall, reinforced concrete or steel buildings; moreover, the development of new energy dissipation devices and a better understanding and assessment of natural and anthropogenic loads on buildings has become of great interest to the scientific engineering community.

This Special Issue aims to present recent advances in the development of structural engineering for safer buildings. Manuscripts related to earthquakes or wind-resistant design of buildings, structural response of buildings under natural hazards, the estimation of earthquake and wind loads, seismology, new and modern buildings, resilient design, seismic and wind records, structural vulnerability, optimum design, and related topics to structural engineering are welcome.

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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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