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Seismic Analysis of Multistoried Buildings

Guest Editor:

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Deadline for manuscript submissions:
closed (10 May 2024)

Message from the Guest Editor

Dear Colleagues,

I am pleased to invite you to submit a contribution to the Special Issue “Seismic Analysis of Multistoried Building”of the journal “Buildings”.

Nowdays structures are higher, lighter, and some of them have irregular configuration both in elevation and plan. These buildings need careful design as they become more susceptible to dynamic load activities such as earthquake. During this event, most structures have an inherent damping in them which results in some of the input seismic energy being dissipated, but a large amount of energy is absorbed by the structure, causing it to undergo several deformations and maybe even collapse. So, over the last year, there has been great interest in the design and use of seismic energy dissipation devices (passive, semi-active, active and/or hybrid).

In this Special Issue, original research articles and reviews are welcome. Contributions addressing design, assessment, numerical and experimental investigations, seismic analyses and seismic loss estimation of multistoried builbings are welcome.

I look forward to receiving your contributions.

Dr. Magdalini D. Titirla
Guest Editor

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Editor-in-Chief

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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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