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# Computational Models for Dynamic Analyses of Buildings and Structures

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**closed (31 December 2021)**

## Message from the Guest Editors

Dear Colleagues,

The analysis of the dynamic behavior of buildings and structures has had notable development in recent decades thanks to the ever-increasing effectiveness of modeling and calculation tools. The availability of a reliable computational model, either accurate or simplified, is, without doubt, one of the most crucial needs for a structural engineer. One of the most studied problems in structural engineering concerns the estimation of the seismic vulnerability of existing buildings, many of which were built in the absence of specific technical regulations. The reliability of this estimate is closely linked to the correct modeling of the building in question concerning both structural and non-structural elements. Another fundamental aspect in structural engineering concerns[...]

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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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