

# Special Issue

## Latest Contributions to Building Structural Analysis

### Message from the Guest Editors

The rapid development of materials, construction and industrial technologies leads to significant innovations in building systems and load-bearing components. The buildings that have adopted these innovative systems or components may have distinct structural performances under various loading scenarios, which need to be comprehensively verified. Moreover, the adoption of new structural design tools, design concepts and novel modeling and computational methods also offers many opportunities and challenges for structural analysis, which need to be further investigated. This Special Issue aims to exchange ideas and knowledge on a great variety of topics, including but not limited to: structural performances of buildings; innovative structural components in building structural behaviors; structural analysis of buildings under natural hazards or extreme loading scenarios; new building design tools, modeling and computation methods; building maintenance and materials; construction technology and engineering; intelligent buildings or computer-aided design and simulations; structural health monitoring; seismic resilience of communities and cities; multi-hazard engineering.

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### Guest Editors

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### Deadline for manuscript submissions

closed (20 April 2023)



## Buildings

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. David Arditi

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indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
CiteScore - Q1 (Architecture)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).