Special Issue

Structural Analysis of Underground Space Construction

Message from the Guest Editors

We are pleased to invite you to submit a manuscript to our Special Issue of Buildings. As an important part of underground engineering development, supporting structures are of great significance for the safety, function, and aesthetics of underground structures. This Special
Issue focuses on providing a platform for the design, monitoring, simulation, and analysis of underground structures.

The topic of interest covers the design and analysis of underground engineering structures in the fields of transportation, mining, water conservancy, and hydropower, including theoretical analyses, model and field tests, numerical simulations, etc. High-quality case studies and critical literature reviews are also welcome.

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/ UM0HZ314EF

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2025)

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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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