

Special Issue

Emerging Technologies and Equipment in Civil Engineering (Building, Bridge, and Tunnel Engineering)

Message from the Guest Editors

In the domain of civil engineering for residential buildings, the acceleration of urbanization has heightened people's expectations for livable environments. Therefore, the design and planning of residential buildings have become particularly crucial. Addressing the challenges of providing comfortable living, intelligent management, and eco-friendly solutions is essential in residential building engineering. This journal and academic conference will focus on cutting-edge technologies and best practices in residential building engineering, discussing ways to improve building quality and residential environments while promoting sustainable urban development.

- Building materials and structures;
- Architecture design and planning;
- Construction technologies and management;
- Sustainable buildings and green engineering;
- Applications of BIM in engineering;
- Civil engineering for residential buildings and urban planning;
- Urban infrastructure and transportation planning;
- Underground space development and underground structures;
- Bridge and tunnel engineering design and construction;
- Bridge and tunnel structure health monitoring and maintenance.

Guest Editors

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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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).