

# Special Issue

## Fire Safety and Evacuation Strategies in Built Environments

### Message from the Guest Editors

Fire safety and evacuation strategies in built environments aim to protect lives and property through integrated prevention, detection, suppression, and evacuation planning. Prevention involves fire-resistant materials, compartmentalization, and adherence to codes (e.g., NFPA, IBC). Detection systems and suppression tools enable early response, while evacuation strategies prioritize accessible exits, emergency lighting, and assembly points, supported by drills to address human factors like panic and mobility challenges. The building design incorporates fire-resistant construction and optimized egress, such as stairwell pressurization and refuge areas. Technology, including IoT-enabled detectors, BIM, and fire modeling (FDS), enhances risk assessment and system readiness. Specialized approaches cater to supertall buildings, hospitals, and underground facilities. This Special Issue invites high-quality research on:

- Fire prevention and protection;
- Fire detection and suppression;
- Evacuation planning;
- Human factors;
- Building design and accessibility;
- Technology and tools;
- Specific building types.

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### Guest Editors

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### Deadline for manuscript submissions

30 November 2026



## 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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#### 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).