Special Issue

Fire Resilience and Safety Innovations in Buildings

Message from the Guest Editors

Fires in buildings continue to be a major global safety concern, particularly as climate change and urban density exacerbate the risk of fire. Additionally, emerging energy sources and technologies introduce new fire hazards that require updated safety approaches. Many traditional fire protection systems are limited in their abilities or are increasingly insufficient to address these evolving hazards.

The primary goal of this Special Issue is to advance the understanding and application of innovative fire resilience and safety strategies in buildings. By encouraging interdisciplinary research, technological development, and policy integration, this Special Issue aims to identify scalable solutions that can reduce fire-related risks, enhance building performance under fire conditions, and improve post-event recovery. Through the collection of original research articles, case studies, and practical insights, this Issue seeks to establish fire safety as a foundational principle of sustainable, intelligent, and adaptive built environments.

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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