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Construction Management, Disaster Risk Management and Reconstruction for Resilient and Sustainable Cities

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Message from the Guest Editors

According to United Nations agencies, the number of people forcibly displaced from their homes has largely increased in the last decade, so as the numbers of international migrants and disaster events. The rising of disasters and conflicts have caused huge lost in buildings, cities and the world economy.

Whether we consider drivers (e.g. climate change, mass urbanization, geopolitical and civil tensions), events (the COVID-19 pandemic, earthquakes, storms), effects (social, economic, etc.) or solutions (Post-conflict and post-disaster rehabilitation of communities), the Built Environment is at the nexus of all these. Its construction and use are key energy consumers and sources of emissions.

Construction management in the context of re-build, re-habitation and refurbishment must adapt to address these challenges and deliver the resilient, sustainable and future-proof built environments that we need.

In this Special Issue of Buildings, we aim to publish articles that explore and address the challenges and opportunities for positive change towards resilience and sustainability from a construction management perspective.

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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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