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Advancing Urban Resilience through Enhanced Disaster Response and Recovery

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Deadline for manuscript submissions:
31 December 2024

Message from the Guest Editor

This special issue aims to expand the discourse around disaster response and recovery, exploring advancements and innovations that enhance urban resilience. It covers critical aspects of disaster management, including disaster reconnaissance, search and rescue, and long-term recovery strategies. In densely populated urban areas, where the concentration of structures and populations poses complex challenges, advanced strategies and technologies are indispensable. We invite contributions that explore how these methods are transforming disaster response and recovery. Articles may focus on practical solutions and theoretical developments that improve the efficiency and effectiveness of interventions and refine management strategies, ensuring quicker, more effective recovery from disasters. This special issue seeks to showcase a comprehensive approach to disaster management, from initial impact assessment to sustainable long-term recovery.

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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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