Special Issue

Advancing Sustainable and Cost-Effective Practices in Building Design and Construction

Message from the Guest Editors

This Special Issue offers an opportunity to explore solutions to the challenges posed by the current cost crisis and its impact on the construction industry. This Special Issue invites submissions related to the latest developments in sustainable building materials, innovative construction technologies, lifecycle management, and practices aimed at reducing the environmental impact of the construction sector, a major contributor to greenhouse gas emissions, with the goal of promoting green economic growth in the field. Therefore, we welcome studies on green building solutions and durable, well-designed, and disaster-resilient buildings that enhance both the sustainability and safety of the built environment. These innovations have the potential to create a more resilient and sustainable built environment while mitigating costs. In the context of natural disaster-resilient buildings, this Special Issue encourages researchers, policymakers, and practitioners to share findings and strategies that will advance sustainable development and support a transformative shift in the construction industry towards a more cost-effective, energy-efficient, and eco-conscious future.

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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