

Special Issue

Cutting-Edge Research on Smart, Sustainable, and Resilient Buildings and Cities

Message from the Guest Editors

This Special Issue publishes cutting-edge research on the planning, design, construction, performance, and management of architecture and buildings with a focus on the science, technology, and engineering aspects of the built environment from smart, sustainable, and resilient perspectives at various spatial scales for buildings, neighborhoods, and cities in time. This includes, but is not limited to, building diagnosis, retrofit, safety, resiliency, affordability, livability, and sustainability. Submissions on novel systems or creative solutions to buildings in energy consumption, carbon emissions, microclimate, construction management, prefabrication, and 3D printing, plus new types of building materials, structures, and functions, forms, and aesthetics for representative projects in one country or around the global are particularly encouraged. Research oriented on construction policies, building codes, standards, certifications, and regulations is also welcome. For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/K785RRNGEK

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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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