Special Issue

Advanced Research on Smart Buildings and Sustainable Construction

Message from the Guest Editor

In an era marked by pressing environmental concerns and an urgent need for sustainable development, the pursuit of carbon neutrality and sustainability in building construction and operation has become paramount. This Special Issue aims to spotlight pioneering research and innovative methodologies in the realms of smart building technologies and sustainable construction practices, with a particular emphasis on achieving carbon neutrality and promoting sustainability. The topics including, but not limited to: AI-based smart building automation and control systems for carbon reduction; Innovative strategies for energy-efficient building design and retrofitting; Integration of renewable energy sources to achieve carbon neutrality in buildings; Sustainable materials and construction techniques and so on.

Guest Editor

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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.

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