Special Issue

Advancements in Adaptive, Inclusive, and Responsive Buildings

Message from the Guest Editors

This Special Issue, "Advancements in Adaptive, Inclusive, and Responsive Buildings," seeks to showcase the latest research and developments in the design, technology, and performance of buildings that emphasize adaptability, inclusivity, and responsiveness to accommodate diverse occupants and changing conditions. This Issue will explore a broad range of topics, including innovative building systems and designs tailored to the needs of the occupants, ranging from individuals with typical abilities to those with special needs. In addition, the Issue will investigate advances in high-performance building operation and management, district energy supply and demand optimization, and the reduction of infection rates within the built environment, drawing on lessons learned from the COVID-19 pandemic. This Special Issue aims to inspire the design, operation and maintenance of future buildings that can cater to the diverse needs of their occupants while promoting sustainability, health, and comfort in our rapidly evolving urban landscapes. We look forward to receiving your contributions.

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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