

Special Issue

BIM and Smart Technologies in Building Design, Construction, and Lifecycle Management

Message from the Guest Editors

The rapid advancement of digitalization is reshaping the architecture, engineering, and construction (AEC) industry. Building Information Modeling (BIM), together with a wide range of smart technologies, is enabling more efficient, collaborative, and sustainable practices across the lifecycle of buildings, from design and construction to operation and facility management.

This Special Issue provides a platform for cutting-edge research and practical applications that explore how BIM and smart technologies are transforming building processes and management throughout building lifecycles. We welcome contributions presenting new methods, frameworks, tools, and case studies that integrate digital technologies with design, construction, and lifecycle management to improve efficiency, coordination, decision-making, and innovation. Topics of interest include BIM-enabled planning and construction, digital collaboration, data-driven decision-making, and the automation and optimization of building processes, as well as innovative approaches for sustainable, resilient, and smart buildings.

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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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