

Special Issue

Application and Practice of Building Information Modeling (BIM)

Message from the Guest Editors

Over half of the world's population currently reside in urban areas. Urbanization has led not only to economic and social transformation, but also to high resource consumption and considerable environmental damage related to many sectors, including the building sector.....To this end, we welcome papers on BIM approaches and methodological schemes that include/combine data on energy, water consumption, waste generation and links with LCA, including estimations of carbon footprint and decarbonization. Topics of interest include:

- BIM talent training to trigger smart construction;
- Life-cycle-based smart construction knowledge maps in AEC that refer to emerging technology for the planning, design, construction and operation of product, project and enterprise management and decisions;
- BIM-based digitally driven innovation and digital capabilities in project management;
- Digital transformation and project management in AEC;
- Self-organization design in digital transformation;
- Big data and AI and their impacts on project society.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/0592328968

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).