Special Issue

Advancing Construction and Design Practices Using BIM

Message from the Guest Editors

Building information modeling technology has a great influence on the building and construction and project management industries, enabling highly sophisticated design, planning, and execution. This Special Issue will bring together state-of-the-art developments in BIM related to its applications in improving collaboration and monitoring, reducing project risks, and enhancing cost and time efficiency in construction design. Subtopics include but are not limited to the following: BIM-integrated project scheduling, real-time data sharing, reverse engineering, sustainability assessment, AI applications and automation in parametric modeling. The articles will highlight a set of innovative case studies, emerging tools, methodologies and strategies that can help overcome interoperability challenges and stakeholder adoption. This Special Issue intends to show in detail how BIM is changing traditional practices to smarter and more sustainable construction by presenting interdisciplinary research and practical insights.

Guest Editors

Prof. Dr. Pierpaolo D'Agostino
Department of Civil, Architectural and Environmental Engineering, University of Naples Federico II, 80125 Naples, Italy

Erika Elefante
Department of Civil, Architectural and Environmental Engineering, University of Naples Federico II, 80125 Naples, Italy

Deadline for manuscript submissions

31 December 2025

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/227818

Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

mdpi.com/journal/buildings

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/journal/buildings

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

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

Author Benefits

High Visibility:

indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Construction and Building Technology) / CiteScore - Q1 (Architecture)

Rapid Publication:

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).