buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 3.4

Research on BIM-Based Building Process Management

Guest Editors:

Prof. Dr. Daniotti Bruno
Department of Architecture, Built Environment and Construction Engineering, School of Architectural Engineering, Politecnico di Milano, 20133 Milan, Italy

Dr. Mirarchi Claudio
Department of Architecture, School of Architectural Engineering, Politecnico di Milano, 20133 Milan, Italy

Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editors

Research activity about Building Information Modelling (BIM) is now one of the most important in the field of ICT for the construction sector, as there is a need to apply it for different innovative applications in the Architecture, Engineering, and Construction (AEC) sectors. This Special Issue surveys the latest research developments surrounding BIM throughout the entire building process, from the early design stages to the construction of the building and its management, until the end of its life cycle, including demolition and deconstruction. The Special Issue also looks at other related areas of potential, including, but not limited to, building renovation and heritage conservation. We invite submissions of both relevant original research and critical review papers addressing the above themes as well as exploring the future extensions of BIM such as digital twins; the adoption of advanced systems (e.g., virtual reality and augmented reality) to better support communication and collaboration in BIM; and the integration of IoT and artificial intelligence for enhancing decision making and automation in the building life cycle.

buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 3.4

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.
Journal Rank: JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (Architecture)

Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/buildings
buildings@mdpi.com
𝕏@Buildings_MDPI