Special Issue

Automation and Information and Knowledge Model Technologies in Construction Engineering

Message from the Guest Editors

The ubiquity of digitalization in construction enables new levels of automation for processes and workflows that create and maintain digital assets throughout the building and infrastructure lifecycle stages. Research in the various fields of computer science and informatics combined with research in construction creates new research opportunities for construction informatics, which is boosting research in the automation of many BIM-based methods. Original research papers on the following topics are welcome: BIM-based automation, semantic web and linked data for automation, ontology driven workflows, digital twins, digital building logbooks, automation and classification systems, IFC extensions, construction robots, autonomous machines for construction, automation of building, automation for construction safety, automation of modular construction, ethical automation in construction, smart construction materials and automation, and building management automation systems. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/ Automation_Information

Guest Editors

Dr. Andrej Tibaut

Faculty of Civil Engineering, Transportation Engineering and Architecture, University of Maribor, 2000 Maribor, Slovenia

Dr. Salvatore Antonio Biancardo

Department of Civil, Construction and Environmental Engineering, University of Naples Federico II, 80125 Naples, Italy

Deadline for manuscript submissions

closed (28 February 2023)

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/104573

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).