Special Issue

The Power of Knowledge in Enhancing Construction Project Delivery

Message from the Guest Editors

The construction industry continuously faces challenges in terms of incorporating knowledge gained from projects to effectively enhance future project outcomes. The aim of this Special Issue is to provide a platform for researchers and stakeholders to present their latest research on the use of knowledge as a tool (including, but not limited to, advancements in technology, data visualization, artificial intelligence, disputes and claims management, and claim analysis) during all the stages of construction projects—planning, design, procurement, preconstruction, construction, close-out, operations, and maintenance stages. High-quality research articles and reviews are welcome. Papers on, but not limited to, the following topics are welcome:

- Knowledge management
- Knowledge extraction
- Project performance
- Disputes and claims management
- KM for effective contract management
- Claim analysis
- Advancements in technology
- Data visualization
- Artificial intelligence
- Digital twins

Guest Editors

Dr. Ghada Gad

Department of Construction Engineering and Management, College of Engineering, California State Polytechnic University, Pomona, CA 91768, USA

Dr. Siddharth Banerjee

Department of Civil Engineering, California State Polytechnic University, Pomona, CA 91768, USA

Deadline for manuscript submissions

15 December 2025

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/journal/buildings

MDPI

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).