

The Power of Knowledge in Enhancing Construction Project Delivery

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:

30 November 2024

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



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](https://twitter.com/Buildings_MDPI)