

# Special Issue

## Advanced Technologies for the Construction Industry in the Digital Era

### Message from the Guest Editors

The construction industry is complicated and faces new challenges every day due to the involvement of complex processes and associated resource management. Advanced technologies such as artificial intelligence (AI), machine learning (ML), computer vision, and geospatial and scanning technologies have shifted the way civil engineers and urban planners operate in the digital era. Technologies such as geospatial, remote sensing, and ML techniques have provided new ways for collecting and analyzing data that were not easily possible earlier. In addition to introducing much-needed disruption, such technologies provide missing innovation and uplift the otherwise traditional construction industry. This Special Issue focuses on collecting high-quality articles on advanced technologies in the construction and urban domains. The target contributors include civil engineers, urban planners, construction and project managers, city management teams, architects, government officials, and others, in addition to academics and scientists.

### Guest Editors

Dr. Ahsen Maqsoom

Department of Civil Engineering, COMSATS University Islamabad, Wah Campus, Rawalpindi 47040, Pakistan

Dr. Fahim Ullah

School of Surveying and Built Environment, University of Southern Queensland, Springfield Central, QLD 4300, Australia

### Deadline for manuscript submissions

closed (31 March 2023)



## Buildings

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 4.4



[mdpi.com/si/129484](https://mdpi.com/si/129484)

*Buildings*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[buildings@mdpi.com](mailto:buildings@mdpi.com)

[mdpi.com/journal/  
buildings](https://mdpi.com/journal/buildings)





# Buildings

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 4.4



[mdpi.com/journal/  
buildings](https://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 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).