Special Issue

Risks and Challenges of AI-Driven Construction Industry

Message from the Guest Editors

This Special Issue focuses on the risks and challenges associated with AI-driven technology adoption in construction projects and the built environment. It seeks to attract original high-quality contributions researchers and practitioners in the broad areas of construction and the built environment in relation to engineering, information systems, management, law, security studies and all relevant areas of transdisciplinary research. Potential sub-themes include, but are not limited to:

- The additionality of AI adoption in construction;
- Risks and challenges of AI-driven construction projects;
- Risks and challenges of technology integration in construction projects;
- Cybersecurity and data protection risks in AI-driven construction;
- Reliability and accuracy of AI models in construction projects;
- Applications of AI in disaster management;
- Workforce transformation and skill gaps in AI-driven construction;
- Legal and regulatory challenges in AI-driven construction;
- Ethical and social implications of AI adoption in construction;
- Financial risks associated with AI-driven construction projects;
- Safety risks in AI-driven construction.

Guest Editors

Prof. Dr. Oluwole Olatunji

Dr. Don Chamila Subasinghe

Dr. Emil Jonescu

Deadline for manuscript submissions

31 October 2025

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/237890

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).