



Advanced Technologies in Smart Construction and Artificial Intelligence

Guest Editors:

Dr. Shuai Han

Faculty of Construction and Environment, Hong Kong Polytechnic University, Kowloon 100872, Hong Kong

Dr. Yantao Yu

Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong 999077, China

Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editors

Advanced technologies such as Digitalization, Simulation, Internet of Things, and Artificial Intelligence, are promoting the transformation and innovation of various industries, and the construction industry is no exception. In this context, smart construction comes into being, and is playing a more and more important role in modern society as it overcomes the drawbacks of traditional construction technologies in low efficiency, high pollution, and high energy consumption. Smart construction has entered into a booming period, but also with many challenging issues, especially many interdisciplinary-related problems which need further breakthroughs.

In this Special Issue “Advanced Technologies in Smart Construction and Artificial Intelligence”, we encourage researchers and practitioners to share their knowledge, creative ideas, research results, technologies, and methods related to smart construction.





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