buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 3.4

Artificial Intelligence for Sustainable Construction and Infrastructure Management

Guest Editors:

Dr. Yuan Chen

Dr. Hexu Liu

Dr. Xianfei Yin

Dr. Bo Xiao

Dr. Yinghua Shen

Deadline for manuscript submissions:
closed (10 May 2023)

Message from the Guest Editors

Dear Colleagues,

Artificial intelligence (AI) can act as a backbone that provides a new and more efficient way for facilitating sustainable construction and infrastructure management. Therefore, this Special Issue intends to encourage researchers and practitioners to implement **AI in construction** and **infrastructure management** in order to seize the valuable opportunity of digital evolution for improved project performance and sustainability. Research papers related to AI for sustainable construction and infrastructure management are welcomed, including but not limited to knowledge representation and reasoning, computer vision, machine learning, deep learning, natural language processing, intelligent optimization, information fusion, and process mining.

- *artificial intelligence*
- *automation in construction*
- *construction management*
- *construction informatics*
- *machine learning*
- *sustainability*

We look forward to receiving your submissions.

buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.1

CITESCORE 3.4

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