Special Issue

Intelligent Design, Green Construction, and Innovation

Message from the Guest Editors

Intelligent design, green construction, and innovation are highly regarded topics in the field of architecture, encompassing the utilization of smart technologies to improve architectural design, environmentally friendly construction practices, and fostering innovation. This includes the application of artificial intelligence, big data, and the Internet of Things to achieve intelligent design (such as building information modeling techniques), the utilization of novel materials (such as recycled concrete, FRP reinforcement, phase change materials), and methods (such as 3D printing) to achieve green construction, as well as innovative approaches and practices (such as smart building systems) to drive the construction industry towards digitization, automation, and sustainability. This Special Issue of *Buildings* will focus on the latest developments and technological applications in these areas, promoting the widespread adoption and continuous innovation of intelligent technologies in the field of architecture.

Guest Editors

Prof. Dr. Yongping Yu

Dr. Zhonghai Xu

Dr. Shaopeng Zheng

Deadline for manuscript submissions

30 December 2025

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).