Special Issue

Advanced Research on Intelligent Building Construction and Management

Message from the Guest Editors

Intelligent construction integrates a series of advanced technologies and involves many areas of expertise in civil engineering, computer application, engineering management, mechanical automation, electrical power systems, clean energy, and other fields of knowledge. It should be noted that intelligent construction is inseparable from intelligent operation and maintenance. Reasonable management methods and operational control strategies significantly contribute to the construction industry with efficiency and low-carbon strategies resulting in comprehensive, coordinated, and sustainable development.

- Project management knowledge;
- Management decision making;
- BIM technology;
- HSE evaluation;
- Prefabricated building technology;
- Green building technology;
- Building big data;
- Artificial intelligence;
- Smart cities;
- Intelligent energy use management;
- Multi-scale information databases;
- Other new technologies in communities, buildings, cities, industry parks, etc.

For more information, please view the special issue link: https://www.mdpi.com/journal/buildings/special_issues/WJ6J742QA5

Guest Editors

Dr. Lin Liu
Dr. Taotao Shui
Dr. Chun Wang

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

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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

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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).