

Special Issue

Inspection, Maintenance and Retrofitting of Existing Buildings

Message from the Guest Editors

Maintaining and inspecting existing buildings is crucial in meeting the societal goals of sustainable city development. Existing buildings will pose a danger to the general public if not properly maintained. Many of the buildings have suffered from early deterioration, so the maintenance and inspection techniques have become more demanding regarding accuracy and reliability. Moreover, existing building stocks consume significant amounts of energy worldwide. Therefore, sustainable building retrofitting has emerged as a significant urban rehabilitation theme and provides vast palpable opportunities for improving the performance of the existing building stock. The objective of this Special Issue is to cover the following topics:

- Advanced inspection techniques and maintenance technology
- Digital modelling of the existing building stock
- Application of building information modelling
- Sustainability and maintainability
- Greening/energy retrofitting of the existing building stock
- Decision-making models to support building maintenance management, etc

Guest Editors

Dr. Michael Sing

Prof. Dr. Joseph Lai

Prof. Dr. David J. Edwards

Prof. Dr. Nayanthara De Silva

Deadline for manuscript submissions

20 October 2025



Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.4



mdpi.com/si/153016

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

[mdpi.com/journal/
buildings](https://mdpi.com/journal/buildings)





Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.4



[mdpi.com/journal/
buildings](https://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).