

Special Issue

Bioclimatic Architecture for Building Renovation

Message from the Guest Editors

Rates within the next ten years (European Commission, 2021) to reduce the consequences of climate change. Increasing average temperatures, as observed since the pre-industrial period (European Environment Agency, 2021), provide the potential of decreasing heating demand for buildings during cold periods. In contrast, the cooling demand will increase to satisfy occupants' need for adequate thermal comfort. The application of bioclimatic architecture strategies for newly built buildings has proven to bring satisfactory indoor climates for centuries as well as saving energy. Thus, extending their application for building renovation can be a massive potential and significant focus in the coming years towards developing sustainable renovation design scenarios, given the sustainable nature of architecture passive design strategies. To this end, this Special Issue is dedicated to bringing together the recent efforts in both research and/or practice of concepts, opportunities, challenges, and application of bioclimatic approaches in building renovation or sustainable renovation.

Guest Editors

Dr. Aliakbar Kamari

Department of Civil and Architectural Engineering, Aarhus University,
8000 Aarhus, Denmark

Dr. Stina Rask Jensen

AART architects, 8000 Aarhus, Denmark

Deadline for manuscript submissions

closed (31 March 2023)



Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.4



mdpi.com/si/110607

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).