

Health and Sustainability in Buildings

Guest Editors:

Prof. Dr. David Marín García**Dr. David Bienvenido Huertas****Dr. Manuel Duarte Pinheiro****Dr. Miguel José Oliveira**Deadline for manuscript
submissions:**closed (31 August 2023)**

Message from the Guest Editors

Dear Colleagues,

This Special Issue reports on emerging and novel trends regarding research activities related to health and sustainability in buildings, contributing to addressing the pressing challenges in this area of knowledge in such a way that advances are made in buildings comfortable, but at the same time healthy, sustainable and affordable, offering the maximum comfort without affecting health and the environment, ensuring the greatest safety of people, energy efficiency and that its entire life cycle is sustainable.

This Special Issue deals with advances in building in relation to providing health and comfort to inhabitants without losing sight of improving the environment and making all activities related to buildings and their life cycle sustainable.

It should be added, however, that it is intended to prioritize cutting-edge technologies related to, for example, simulation and experimentation, software, hardware, machine and deep learning, BIM, surveying and 3D modeling, digital twins, home automation and the Internet of Things, sensors, equipment, electronics, robotics and mechatronics, new materials, designs, procedures, etc.



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.

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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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