



an Open Access Journal by MDPI

Intelligent Digital Solutions for High-Performance and Low-Carbon Building Operations

Guest Editors:

Dr. Shiyu Yang

Prof. Dr. Lu Sun

Dr. Dafang Zhao

Dr. Xu Han

Dr. Sicheng Zhan

Deadline for manuscript submissions: closed (11 March 2024)

Message from the Guest Editors

In the evolving realm of building operations, a prominent transition is underway towards high-performance and lowcarbon solutions, with digital technologies steering this paradigm shift. This Special Issue seeks to delve into the transformative power of intelligent digital solutions in revolutionizing building operations, emphasizing both efficiency and environmental sustainability. As global climate change and energy conservation concerns mount, harnessing the power of digital intelligence to implement high-performance, low-carbon operational strategies becomes increasingly imperative... This SI invites studies exploring intelligent digital solutions, including intelligent control, data-driven techniques, machine learning, optimization algorithms, predictive analytics, etc., for pioneering new trajectories in building operations ranging from individual buildings to regional scales...

For more information, please view the following link:

https://www.mdpi.com/journal/buildings/special_issues/ U0KCA8X0O5

Specialsue



mdpi.com/si/183609





an Open Access Journal by MDPI

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank: JCR - Q2 (Engineering, Civil) / CiteScore - Q1 (Architecture)

Contact Us

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