Special Issue

Digital Technology and Smart Buildings

Message from the Guest Editor

Digital technology and smart buildings are key elements for achieving a carbon-neutral and sustainable green society by 2050. In particular, due to the development of digital technologies such as the Internet of Things, big data, and artificial intelligence, buildings are rapidly changing into smart spaces. In addition, cloud-based platform technology has made buildings into a single digital product and provides a better life through the connection between buildings and cities. Furthermore, digital twin and energy data analysis technology have made it possible to use buildings as an object in establishing national strategies for carbon neutrality. In other words, various digital technologies are suggesting directions for the scalability and development potential of future smart buildings for carbon neutrality. At this point, the direction of future building is clear. However, although various intelligent technologies are being applied to buildings, the practical verification of advanced technologies and smart

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Deadline for manuscript submissions

closed (20 November 2023)

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/153169

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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.

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