Special Issue

Healthy Green Building Planning and Design

Message from the Guest Editors

The planning and design of healthy green buildings is quite challenging, due to their interdisciplinary characteristics, such as architecture, urban planning, intelligent control, public health, energy utilization, etc. This Special Issue is being organized to share the advanced knowledge, technologies, and methods for realizing healthy green building planning and design based on advanced tools, where authors are encouraged to submit papers addressing topics including but not limited to the following: (1) Advanced tools, knowledge, technologies and algorithms for healthy green building design and planning; (2) Healthy green design/planning towards safety, health, comfort, reduced air pollution, low carbon emission, and energy saving; (3) Application of GIS, BIM/CIM, AI, IoT and Big Data for healthy green design/planning; (4) Bridging the scales among the design and planning of healthy green building—community and urban; (5) Performance, simulation, and experimental testing of healthy green buildings; (6) Culture, history, and arts in the design of healthy green buildings; (7) Heritage protection and healthy green building design/planning.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2023)

Buildings

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**Impact Factor 3.1
CiteScore 4.4**

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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.

Editor-in-Chief

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