Special Issue

Smart Asset Management for Sustainable Built Environment

Message from the Guest Editors

Smart asset management for the sustainable built environment is a strategic and systematic process used for effective and sustainable design, construction, operation, maintenance, and upgrade, analysing the resilience of physical and digital assets to achieve an essential level of service, reduce risks, reduce energy consumption, and optimize capital investment over an asset lifecycle in a sustainable environment. This Special Issue aims to bring together the current state-of-the-art-technologies and new developments of BIM (building information modelling) and AI (artificial intelligence) application in all topics relevant to smart asset management for both physical and digital assets in a sustainable built environment. We encourage all researchers working in related areas to submit research papers detailing their work. Papers reporting the outcomes of research at all stages, including literature reviews, data analyses and completed research projects, are welcome.

Guest Editors

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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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