Special Issue

Advancing Digitalisation in Construction: Responding to New and Emerging Drivers and Changes

Message from the Guest Editor

Much like everything else, the architectural, engineering, construction, operations and maintenance sector is undergoing a digital transformation. Technologies that hithertofore were restricted to digital solutions are permeating the pre- and post-construction building industry. We have learnt a great deal from embracing building information modelling. Particularly in the last ten years, we have witnessed an unprecedented joint effort to remove the various barriers, preventing the advancement of digitalisation. Concomitantly, we are witnessing significant contextual changes, driving and reinforcing the need for digitalisation. Organisations can now create data ecosystems to capture and analyse data trails from environments and building users, and determine how to enhance building use and performance. These building data ecosystems seed the development of intelligent cities when connected. This Special Issue call aims to attract research articles investigating new and emerging drivers and necessary and current changes. We are looking at issues impacting people, processes or information technology, in turn enabling a digitally built future.

Guest Editor

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Deadline for manuscript submissions

closed (22 August 2022)

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/89174

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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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