Special Issue

Smart and Connected Buildings and Communities Founded on the Internet of Things

Message from the Guest Editor

This Special Issue, "Smart and Connected Buildings and Communities Founded on the IoT", invites contributions on innovative approaches in construction and the built-environment domains related—but not limited—to the following: (i) emerging systems from human–smart-device interaction with new functions and capabilities; (ii) successful case studies on technology implementation (e.g., scalability, interoperability, measurability); (iii) enhanced value in technology infrastructure—the aggregation across technology layers (e.g., from sensing to connectivity to analytic platforms); (iv) emerging applications of collected, analyzed, and shared longitudinal data; (vi) innovative concept-driven methodologies (e.g., new systems science and engineering approach of functionalities, such as prediction and measurement); and (vii) frameworks on data management (e.g., trustworthiness strategies in reliability, resilience, safety, security, and privacy).

Guest Editor

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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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