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Sustainable Development of Buildings: Design, Construction, Quality Inspection, Operation Management

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Deadline for manuscript submissions:
closed (31 December 2019)

Message from the Guest Editors

In this Special Issue of the journal *Buildings*, we plan to extend the growing research stream by inviting manuscripts that investigate current practices, advanced developments, and essential effects of sustainable building design, construction, quality inspection, and operation management. The effects of sustainable development will be discussed throughout the whole life cycle of a building in terms of three dimensions: technology, people, and processes. Submissions that address the investigation of advanced sustainable solutions for new construction and energy retrofitting, describe novel methodologies for sustainability assessment, present strategies and advanced approaches in sustainable urban development, applications of advanced tools for building performance assessment; analyse the approaches that integrate building information modelling and facilities management; and address quality inspection and operation management issues are encouraged.

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Special Issue

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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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