Special Issue

Urban Building and Green Stormwater Infrastructure

Message from the Guest Editor

To address the drainage problems, a series of practices have been proposed. Alongside the reconstruction and upgrading of traditional drainage infrastructures (gray infrastructures), green stormwater infrastructures (GSIs) and low-impact developments (LIDs) are other important components of modern urban drainage engineering practices. In order to promote the construction of GSIs, a new concept and related technical methodology, called “sponge city,” was proposed in China. National pilot city and demonstration city mode were adopted to promote this the concept. GSIs have a greater application potential at the building and community scales. GSI practices are more feasible in newly developed buildings and communities than in older urban sections. This Special Issue calls for attention and discussion on up-to-date findings of urban building and green stormwater infrastructure (e.g., monitoring, mechanism and technology), as well as the frontiers of planning technics and approaches to actualize the sustainable drainage. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/2W03T7D619

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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.

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