Sustainable, Resilient, and Intelligent Buildings

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Deadline for manuscript
submissions:
closed (31 July 2023)

Message from the Guest Editor

With the recent advancements in the architectural, engineering, and construction industry, there are endless opportunities to make buildings and developments more sustainable, resilient, and intelligent. This Special Issue focuses on methods, principles, strategies, and technologies used to plan, design, construct, manage, and operate buildings to ensure they are resilient, smart, environmentally responsible, and resource-efficient throughout their entire life cycle from site selection to demolition or re-use. This Special Issue is not limited to particular building-related sustainability and resilience areas or applications, but rather, it aims to provide a holistic approach toward means needed for ensuring that developments and community spaces are resilient while also supporting the regeneration of resources and natural systems as well as providing socioeconomic benefits through a thriving circular economy. In this Special Issue, original research articles and reviews are welcome.

For scholars interested to submit papers to the Special Issue, please click "Submit to Special Issue" or contact Astoria Yao: astoria.yao@mdpi.com.

mdpi.com/si/138284

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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