Special Issue

New Challenges in Digital City Planning

Message from the Guest Editors

Cities have become central to ensuring a sustainable future, with digital city planning serving as a crucial tool. The rapid growth in computational power, visualization, and the ability to quickly acquire and represent large datasets on most elements of cities at a high resolution has enabled digital city planning to seek optimized solutions to meet complex urban problems. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Progress, challenges, and opportunities of digital city planning;
- City simulation and prediction with AI technology;
- Scenario design and planning response for future change;
- Digital technologies in urban planning and urban management;
- Al technologies in urban analysis;
- Digital twins for digital city planning;
- Big data and planning applications.

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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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