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Planning for Sustainable Land Use and Built Environment in High-Density Cities

Guest Editor:

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Deadline for manuscript submissions:
31 December 2024

Message from the Guest Editor

As urban systems, especially those in high-density cities, becomes increasingly complex, an in-depth and comprehensive understanding of how land use and the environment evolve will assuredly aid in planning and adjustment. This Special Issue calls for attention and discussion on up-to-date findings of sustainable land use and built environment, as well as the frontiers of planning technics and approaches to actualize the sustainability. Potential topics include, but are not limited to:

- Theoretical and empirical studies on sustainable, mixed land use in high-density built environment;
- Sustainable assessment of land use and built environment aided by new data/approaches;
- Evolution and change of urban land use and built environment alongside urban transformation;
- Advances of technologies or methods applied to land use and built environment planning;
- Machine learning and quantitative methods measuring built environment;
- Planning practices of compact and intensive land use;
- Three-dimensional planning and research of smart built environment

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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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