

Special Issue

Low-Carbon Urban Planning: Sustainable Strategies and Smart Cities

Message from the Guest Editors

This Special Issue focuses on the key intersection between low-carbon development goals and data-driven intelligent solutions, exploring how smart low-carbon urban planning can optimize resource efficiency, enhance resilience, and accelerate the process of urban decarbonization. It aims to present cutting-edge research results on multi-scale low-carbon planning methods, digital low-carbon urban management, and sustainable transformation policy mechanisms, covering theoretical modeling, empirical cases, technical demonstrations, and interdisciplinary analysis. We welcome papers on, but not limited to, the following and related topics:

- Calculation systems for smart carbon emissions for cities, urban areas, neighborhoods, and other scales;
- Data-driven intelligent planning for low-carbon cities;
- Planning for low-carbon public service facilities and infrastructure;
- Low-carbon transportation planning;
- Low-carbon planning technology;
- Smart city planning platforms;
- Resilient urban planning;
- CCUS and smart cities;
- Low-carbon management policy.

Guest Editors

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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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