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Engineering Problems and Legal Challenges in Urban and Rural Low-Carbon Development

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Message from the Guest Editors

This Special Issue on " Engineering Problems and Legal Challenges in Urban and Rural Low-carbon Development" aims to compile state-of-the-art knowledge on this matter. Submissions may concern theoretical or applied research in areas such as facade technology, engineering, PV systems and their structural applications, legal issues in urban and rural renewal, or other fields related to the demand for urban and rural renewal. Theoretical and experimental work in the form of research articles, case studies, and comprehensive reviews are suitable for publication.

The Special Issue covers topics including, but not limited to:

- Eco-friendly and green facade design;
- Low-carbon design;
- Sustainable materials;
- Building-integrated photovoltaics;
- Building-attached photovoltaics;
- The economy of renovation;
- Low-carbon renovation;
- The fairness of development.

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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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