



Advanced Technologies in Foundations Engineering and Construction Materials—2nd Edition

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Message from the Guest Editors

Dear Colleagues,

In recent years, we have been confronted with challenges in building construction technologies which are quite different from standard practices. These are mainly related to the possible reconstruction or revitalization of old buildings in industrial zones with the use of a high percentage of recycled materials, as well as an evaluation of old structures and their foundations due to certain limitations. This means that testing and surveying are more complicated in areas of existing buildings and that engineers must improve upon standard construction practices on the green yards. Therefore, advanced technologies and new construction materials have been introduced in order to solve this issue.

The proposed Special Issue will gather contributions from authors with similar research interests, which are fully compatible with the European Green Deal strategy, where renovation and reconstruction can make buildings more energy-efficient and adaptable to climate changes.

For more information, please visit the special issue link:

[https://www.mdpi.com/journal/buildings/
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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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