Special Issue

Application of Experiment and Simulation Techniques in Engineering

Message from the Guest Editors

This Special Issue, entitled “Application of Experiment and Simulation Techniques in Engineering”, aims to demonstrate innovative understanding in the field of engineering using new research methods or simulation methods. Theoretical analysis, experimental research, case studies, and comprehensive review papers are invited for publication. Relevant topics to this Special Issue include, but are not limited to, the following subjects:

- Advanced mechanical behavior of structures;
- New methods in rock and soil mechanics;
- Application of multi-scale problems in engineering;
- Key technologies in resilient cities and smart cities;
- Application of advanced experimental technology in civil engineering;
- New method for solving multi-field coupling problems;
- Application of digital twin technology in the engineering field.

For more information about the special issue, please click on the following link:
https://www.mdpi.com/journal/buildings/special_issues/YB687O0Z9C

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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.

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