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Building Foundation Analysis: Soil-Structure Interaction

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Deadline for manuscript submissions:

31 October 2024

Message from the Guest Editors

The topics of interest include but are not limited to the following:

- 1. Fundamental principles and theories of soil mechanics.
- 2. Design and analysis methods for building foundations.
- 3. Models and numerical simulations of soil-structure interaction.
- 4. Influence of different soil types on building behaviour.
- 5. Analysis of soil bearing capacity, settlement, and deformation.
- 6. Dynamic response and seismic engineering of soilstructure systems.
- 7. Design, analysis, and construction techniques for pile foundations.
- 8. Application of soil improvement techniques in soilstructure interaction.
- 9. Effects of soil lateral forces on buildings and mitigation methods
- 10. Research on soil-structure interaction in underground structures.











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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, 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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