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Application of Soil-Structure Interaction in Construction

Guest Editors:

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Deadline for manuscript submissions:
closed (1 February 2024)

Message from the Guest Editors

Dear Colleagues,

Structures are normally founded on soils or rocks. Soil–structure interaction is a mutual effect between the soil and the structure built on it. With the development of society, there have been a great number of projects involving the construction of soil–structure systems. Thus, an understanding of soil–structure interaction and its application are of great importance.

As the Guest Editors of Special Issue "Application of Soil–Structure Interaction in Construction", we cordially invite you to submit high-quality and cutting-edge articles. The topics include, but are not limited to, the aspects as follows:

- State-of-the-art review and case studies of soil–structure systems;
- Site investigation and interpretation;
- Laboratory element tests, physical model tests, and field tests of geomaterials;
- Constitutive modeling of soil–structure systems;
- Numerical modeling of soil–structure systems ;
- Advanced monitoring and data processing technologies;
- Building structures;
- Underground structures;
- Onshore and offshore structures;
- Ground improvement methods.

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Editor-in-Chief

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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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