Special Issue

Structural Mechanics Analysis of Soil-Structure Interaction

Message from the Guest Editors

Soil–structure interaction issues are common in subsurface engineering, among other forms. Still, the mechanical response at the soil–structure interface is as crucial as the mechanical response of soil or structural material under load action in direct contact with soil. In this Special Issue, we invite original contributions describing new research, case studies, projects, reviews, and state-of-the-art discussions related to the soil–structure interaction. Submissions may concern theoretical or applied research in areas such as geotechnical engineering, material science, civil engineering, or other fields. We welcome papers on the following and related topics, including but not limited to the following:

- Macro and micro measurement technology on the soil-structure interface; including static and dynamic loading;
- Multi-field coupling constitutive model of the interface;
- Effect of interface mechanical properties on the stability of structures;
- New research methods related to digital technology.

Guest Editors

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Deadline for manuscript submissions

closed (30 December 2024)



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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.

Editor-in-Chief

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