

# Special Issue

## New Advances in Soil-Structure Systems

### Message from the Guest Editors

In many geotechnical applications, the built structures and the surrounding soil inevitably work as a complete system during construction and under service conditions. The safety and performance of these geotechnical systems are dependent on not only the behaviours of the soils and the structures but also the complex soil-structure interactions. The investigation of the soil-structure system (including the topic of soil-structure interaction) has attracted tremendous attention from both academics and engineers over the last decades. In recent years, we have seen growing applications of new technologies in the investigation of soil-structure systems, such as image analysis, computed tomographic methods, centrifuge tests, advanced numerical modelling, sophisticated physical modelling, and machine learning methods. The investigation domain has also been extended to a much broader scope, including geothermal systems, offshore turbines and pipelines, extraterrestrial investigation and construction. As the for the Special Issue “New Advances in Soil-Structure Systems”, we cordially invite you to submit your up-to-date articles related to this topic including.

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### Guest Editors

Prof. Dr. Han-Lin Wang

Dr. Wenbo Chen

Dr. Fei Han

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### Deadline for manuscript submissions

closed (10 December 2023)



## Buildings

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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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### Editor-in-Chief

Prof. Dr. David Arditi

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#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).