

Special Issue

Problematic Soils in Building Construction

Message from the Guest Editors

Problematic soils are soils which have potential to expand, collapse, disperse, or undergo excessive settlement. These properties might be induced by their composition, mineralogy, or fabric. Problems caused by problematic soils may include poor bearing capacity, unsafe excavation, instability of slopes and embankments, long-term settlements, etc. With rapid global urbanization, investigate and build infrastructure on problematic soils become very important in building construction. We cordially invite you to submit high-quality and cutting-edge articles of topics include, but are not limited to, the followings:

- Reviews and case studies of problematic soils;
- Laboratory element tests, physical model tests, and field tests of problematic soils;
- Constitutive modelling of problematic soils;
- Numerical modelling of problematic soils (finite element, discrete element, etc.);
- Advances in monitoring and data processing technologies;
- Seismic behaviors of problematic soils and structures;
- Problematic soil–structure interactions;
- Performance of structures on problematic soils (building structures, underground structures, onshore and offshore structures, etc.).

Guest Editors

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Deadline for manuscript submissions

closed (20 November 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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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).