



## Research on Intelligent Geotechnical Engineering

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### Message from the Guest Editors

Dear Colleagues,

The prosperous development of infrastructure construction has driven various constructions such as building, municipal administration, energy, water conservancy, shipping, mining, and national defense, in which geotechnical engineering plays an important role.

This Special Issue aims to highlight the latest innovations in theories, technologies, and methods in intelligent geotechnical engineering. Potential areas may include (but not limited to) the following:

- Intelligent simulation and modeling;
- Intelligent monitoring and early warning;
- Intelligent perception and analysis based on Edge-Cloud-Network;
- Intelligent decision making and control for construction and operation and maintenance;
- Integrated parameter intelligent inversion analysis method of geotechnical engineering;
- Artificial intelligence and disaster prevention and mitigation;
- Application of big data, artificial intelligence, and digital twins in geotechnical engineering.

We look forward to receiving your contributions.

*Guest Editors*





## 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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