Special Issue

Stability and Performance of Building Foundations

Message from the Guest Editors

The stability and performance of building foundations remain critical concerns in civil engineering, particularly as construction expands into increasingly complex geological and environmental settings. This Special Issue aims to present recent innovations, theoretical developments, field applications, and performance assessments related to the design, analysis, and optimization of building foundations. We encourage submissions on innovative studies and case-based research that enhance our understanding of foundation behaviour and its impact on structural safety and serviceability. Topics of interest include, but are not limited to:

- Shallow and deep foundation systems
- Foundation performance under static and dynamic loads
- Soil–structure interaction
- Ground improvement for foundation enhancement
- Foundations in problematic soils
- Performance-based foundation design
- Field instrumentation and monitoring
- Machine learning in geotechnical foundation analysis
- Sustainable foundation construction
- Resilient infrastructure in seismic zones

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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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