buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.8

CITESCORE 3.1

Building Foundation Analysis: Soil–Structure Interaction

Guest Editors:

Prof. Dr. Qiang Xie
School of Civil Engineering, Chongqing University, Chongqing 400044, China

Dr. Yuxin Ban
School of Civil Engineering and Architecture, Chongqing University of Science and Technology, Chongqing 401331, China

Dr. Xiang Fu
College of River and Ocean Engineering, Chongqing Jiaotong University, Chongqing 400074, China

Deadline for manuscript submissions:
31 October 2024

Message from the Guest Editors

The topics of interest include but are not limited to the following:

1. Fundamental principles and theories of soil mechanics.
2. Design and analysis methods for building foundations.
3. Models and numerical simulations of soil-structure interaction.
4. Influence of different soil types on building behaviour.
5. Analysis of soil bearing capacity, settlement, and deformation.
6. Dynamic response and seismic engineering of soil-structure systems.
7. Design, analysis, and construction techniques for pile foundations.
8. Application of soil improvement techniques in soil-structure interaction.
9. Effects of soil lateral forces on buildings and mitigation methods
10. Research on soil-structure interaction in underground structures.

mdpi.com/si/176867

Special Issue

buildings

an Open Access Journal by MDPI

IMPACT FACTOR 3.8

CITESCORE 3.1

Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.
Journal Rank: JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (*Architecture*)

Contact Us

Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/buildings
buildings@mdpi.com
𝕏@Buildings_MDPI