



Technical Challenges and Countermeasures for the Construction, Operation and Maintenance of Geotechnical and Underground Engineering for Rail Transit

Guest Editor:

Dr. Qianwei Xu

The Key Laboratory of Road and Traffic Engineering, Ministry of Education, Tongji University, Shanghai 201804, China

Deadline for manuscript submissions:

closed (30 March 2024)

Message from the Guest Editor

This Special Issue, entitled "Technical Challenges and Countermeasures for the Construction, Operation and Maintenance of Geotechnical and Underground Engineering for Rail Transit", aims to discuss cutting-edge scientific issues in transportation geotechnical and underground engineering.

This Special Issue covers, but is not limited to, the following topics:

- Static and dynamic characteristics and theories of rock and soil mass;
- Interactions between rock and soil mass and underground structures;
- Green construction and maintenance technology for transportation infrastructure;
- Intelligent technology for geotechnical and underground engineering in transportation;
- Vehicle-subgrade (tunnel)–foundation interaction analysis;
- Traffic infrastructure service status monitoring, evaluation and maintenance;
- New theory and construction technology for geotechnical and underground engineering design;
- Tunnel and underground structure life cycle safety operation and maintenance guarantee technology;
- Disaster mechanism and safety treatment technology for geotechnical and underground engineering.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

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

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

mdpi.com/journal/applsci
appls@mdpi.com
[X@Appls](https://twitter.com/appls)