## Special Issue

## Geological Disaster Forecast and Prevention for Tunneling and Underground Engineering

## Message from the Guest Editors

In recent years, various test methods, including laboratory tests, numerical simulations, and theoretical analysis derivation, have been used to forecast and prevent geological disasters in tunneling and underground engineering. However, deep understanding of tunneling and underground engineering is often hampered due to the coupling of complex geological conditions and other external factors. Therefore, further research is necessary on the stability of tunneling and underground engineering. The aim of this Special Issue is to bring together papers on different topics related to forecasting and preventing geological disasters in tunneling and underground engineering, such as laboratory tests, constitutive models, and their engineering applications. Submissions relating to theory, experiments, techniques, numerical methods, and engineering projects are all welcomed, including both original research and review articles. Keywords:

- excavation unloading
- hydraulic coupling
- lining supports
- rheological behavior
- constitutive models
- numerical techniques
- reinforcement and monitoring techniques

## **Guest Editors**

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## Deadline for manuscript submissions

closed (30 April 2023)



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## 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.

## Editor-in-Chief

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