

Special Issue

Tunnel and Underground Engineering: Recent Advances and Challenges

Message from the Guest Editors

At present, there are still many key technical problems in the construction of tunnel and underground engineering, such as the mechanical evolution mechanism of surrounding rock during the construction of underground engineering and tunnel engineering; the construction safety of underground works and tunnel works in rich water geological environment; and the intelligent construction of underground engineering and tunnel engineering. This Special Issue aims to publish high-quality, original research papers in the following overlapping fields (while also not limited to these fields):

- The mechanical mechanism of tunnel and underground engineering;
- The informationized monitoring of tunnel and underground engineering;
- The intelligent development and utilization of urban underground space;
- The intelligent construction of tunneling engineering;
- The engineering problems of urban subways;
- Engineering structure design and optimization;
- Pipe jacking construction;
- Rock and soil mechanics with multi-field coupling;
- A constitutive model of rock and soil;
- Underground carbon dioxide storage technology;
- Underground energy storage.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2025)



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About the Journal

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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