Special Issue

Advanced Research on Tunnel Slope Stability and Land Subsidence

Message from the Guest Editors

Not only are geotechnical disasters related to human activities, such as slope instability, tunnel damage, and surface subsidence, a high risk to society and the environment, but natural geological disasters such as landslides, debris flows, and rock falls are as well. Therefore, it is very useful to understand the disaster mechanism of slope stability, tunnel deformation, and ground settlement for reducing and mitigating the risk of geotechnical and geological disasters using a variety of research methods. The topics discussed in this Special Issue will focus not only on materials related to field investigation and monitoring, laboratory testing, theoretical derivation, and numerical and physical modeling at various scales, but also on advances in research on the cause mechanisms of disasters.

Keywords:

- slope stability
- tunnel surrounding rock instability
- around settlement
- formation mechanism
- numerical simulation
- laboratory rock and soil mechanics experiment
- model test
- theoretical derivation
- monitoring and early warning
- disaster prevention and control

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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.

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