



Advanced Research on Tunnel Slope Stability and Land Subsidence

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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
- ground 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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Message from the Editor-in-Chief

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