

Special Issue

Rock Mechanics in Geotechnical and Tunnel Engineering

Message from the Guest Editors

Rock mechanics is the scientific study of the deformation and failure behavior of rocks under external forces, which directly relates to the stability and safety of geotechnical and tunnel engineering. It plays an irreplaceable role in the design, construction, and operation of engineering projects. With the development of industry, the acceleration of urbanization, and the deepening of underground space utilization, higher requirements have been put forward for the safety and reliability of geotechnical and tunnel engineering. Simultaneously, there is a continuous pursuit of higher economic benefits and lower environmental costs. Therefore, research and application of rock mechanics have become particularly important. By focusing on the frontier issues of rock mechanics in geotechnical and tunnel engineering fields, this theme aims to enrich the theory of rock mechanics, enhance the stability analysis level of geotechnical engineering, and provide scientific support for underground space development such as tunnels and mineral resource exploitation.

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