Special Issue

Rock Mechanics: Latest Research and Challenges

Message from the Guest Editors

Rock mechanics is a branch of mechanics that studies the stress, strain, failure, stability, and reinforcement of rocks under external factors such as loads, water flow, temperature changes, or any other such factors. A newly emerging engineering discipline, the field intersects with related areas of study such as mathematics, solid mechanics, fluid mechanics, geology, soil mechanics, civil engineering, etc. The development of rock mechanics has shown the following trends: firstly, the study of rock rheology, complex constitutive equations (i.e., stress–strain–time relationships), and corresponding computational methods, namely of studying the influence of ground stress and groundwater on the mechanical properties of soft rocks, reinforced technologies and theories for weak rocks, and rock–solid mechanics, will increasingly show their importance This Special Issue will publish high-quality, original research papers, in the overlapping fields of: (1) The physical composition and structural characteristics of rocks;
(2) The constitutive relationships (stress-strain relationships) between rocks and rock masses, etc.

Guest Editors

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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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