Special Issue

Rock Mechanics and Mining Engineering

Message from the Guest Editors

To promote theoretical innovation and improve technological practices in the fields of rock mechanics and mining engineering, this Special Issue focuses on the challenges of establishing rock mechanics during deep resource development and in complex geological environments. It will cover the constitutive model of rock mechanics, multi-field coupling effects, the stability of surrounding rock during deep mining, the prevention and control of dynamic disasters (such as rock bursts and water inrush), and intelligent monitoring and numerical simulation technology, among others. This Special Issue aims to simultaneously focus on green mining and sustainable development issues, including low-ecological-disturbance mining methods, the utilization of mining waste, and ecological restoration technologies for goaf areas. We encourage the submission of interdisciplinary research, such as the use of artificial intelligence and big data in mining optimization, the development of new support materials, and rock mechanics issues in deep geothermal energy development.

Guest Editors

Dr. Yong Zhao
Center for Rock Instability and Seismicity Research, Northeastern University, Shenyang 110819, China
Prof. Dr. Tianhong Yang
Center for Rock Instability and Seismicity Research, Northeastern University, Shenyang 110819, China

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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