Special Issue

Geomechanics for Energy

Message from the Guest Editor

Geomechanics is fundamental for the better understanding of rock mass behavior subjected to human activity. The anisotropic properties of the Earth's crust have been challenging researchers across the world for a long time. Mining geomechanics, as the "oldest" actors, operate within the deepest underground space to extract minerals for energy sources such as coal, oil, gas, and uranium, but they also exploit metals (Cu, Fe, Ni, Cd, Ag, etc.) and non-metals indispensable for any renewable energy sources (cells production) and prepare underground energy storage facilities in salt rocks. Civil engineers work with tunneling. Both must resolve different geomechanical issues. Despite huge advances in current analytical, numerical, and experimental geomechanical methods, researchers today face challenges in more complicated rock engineering structures. More and more frequently they use new tools for rock environment testing and rock reinforcement, control, and monitoring that essentially improve the safety factor and working facilities. This kind of expertise has now become multidisciplinary.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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