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Fractal Analysis and Its Applications in Rock Engineering

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Message from the Guest Editors

In rock mechanics, fractal analysis is used to study the behavior of rock fractures and their properties. Fractal analysis has also been applied to study the fragmentation of rocks. The application of fractal analysis in rock mechanics and rock engineering has opened up new opportunities for understanding the mechanical behavior of rocks and rock masses at various scales and rock masses at various scales.

The scope of this Special Issue includes, but is not limited to, the following topics:

- Fractal analysis of rock fractures and their properties, such as size distribution, orientation, and connectivity.
- Fractal modeling and simulation of rock fragmentation processes, including the study of rock blasting and rock cutting.
- Applications of fractal analysis in rock engineering, including the characterization of rock mass properties and the prediction of rock mass behavior.
- Fractal analysis of geomechanical processes, such as faulting, folding, and deformation of rocks.
- Fractal analysis of rock microstructures, including the study of grain size distribution and pore space characterization.