Special Issue

Fractal Analysis and Its Applications in Rock Engineering, Second Edition

Message from the Guest Editors

In rock mechanics, fractal analysis is used to study the behavior and properties of rock fractures. Fractal analysis has also been applied to study the fragmentation of rocks. The application of fractal analysis in rock mechanics and rock engineering has broadened our understanding of the mechanical behavior of rocks and rock masses at various scales, and has the potential to improve the design and safety of rock engineering projects. The scope of this Special Issue includes, but is not limited to, the following topics: • The fractal analysis of rock fractures and their properties, such as their size distribution, orientation, and connectivity. • The 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. • The fractal analysis of geomechanical processes, such as the faulting, folding, and deformation of rocks. • The fractal analysis of rock microstructures, including the study of grain size distribution and pore space characterization.

Guest Editors

Dr. Xiaohan Yang

Dr. Lihai Tan

Dr. Gaofeng Liu

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Fractal and Fractional
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
fractalfract@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Fractal and Fractional (*Fractal Fract.*) is a scholarly online journal which provides a forum for discussion on new original models and methods in fractals and fractional calculus both from theory and applications. It is a peer-reviewed, open access journal that publishes high quality original research articles, review papers and short communications.

Editor-in-Chief

Prof. Dr. Carlo Cattani
Engineering School (DEIM), University of Tuscia, Largo dell'Università, 01100 Viterbo, Italy

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