Special Issue

Fractal and Fractional Models in Soil Mechanics

Message from the Guest Editors

The aim of this Special Issue is to collect the recent advances in fractal and fractional models in soil mechanics globally. The submitted manuscripts will be peer reviewed. High-quality papers from different disciplines are cordially welcome. Research topics include but are not limited to the following aspects:

- Fractal and fractional models in the analysis of the micro-structure of geomaterials;
- Fractal and fractional plastic models for soil;
- Fractal- and fractional-based complex network analysis in soil mechanics;
- The meso-topological evolution mechanism of granular materials;
- Fractal and fractional models combined with other theoretical, numerical, and/or experimental methods, in the evaluation of the mechanical performance of soil;
- Fractional-order or integer-order neural networks and graph theory approaches in soil mechanics;
- The application of fractal- and fractional-based soil mechanics in geotechnical engineering;
- Other fractal- and fractional-based approaches used in soil mechanics.

Guest Editors

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Deadline for manuscript submissions

30 August 2025



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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

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Author Benefits

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JCR - Q1 (Mathematics, Interdisciplinary Applications) / CiteScore - Q1 (Analysis)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

