Special Issue

Fractional Deterministic and Stochastic Models and Their Calibration

Message from the Guest Editors

The Special Issue embraces the contributions regarding fractional deterministic and stochastic models, numerical techniques or theoretical justification for their calibration, and insights and outlooks (review papers) on potentials of fractional models in interpreting and discovering nature rules. The aim of the Special Issue is to attract attention of mathematicians, scientists, and engineers outside the fractional community, by providing more physical justifications for fractional models. Potential topics include, but are not limited to

- Fractional modeling in acoustic waves, hydrodynamics, viscoelasticity, fluid/solid mechanics, turbulence, finance, biology, physics, control systems, etc.;
- Numerical methods for Fractional differential equations with random inputs;
- Numerical methods for stochastic differential equation driven by fractional Brownian motion;
- Machine learning and other inversion techniques for fractional inverse problems;
- Wellpossedness analysis of fractional inverse problems.

Guest Editors

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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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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).