

Special Issue

Theoretical Analysis and Numerical Simulation for Fractional Dynamics and Fractional Calculus

Message from the Guest Editors

The focus of this Special Issue is on advanced research in theoretical analysis on topics relating to the development of fractional calculus theory; fractional-order operator design; and the analysis of dynamical properties including the stabilization, response, reliability, and control of fractional-order systems. The topics of the newest established technique range from numerical simulation to fractional dynamics. Topics that are invited for submission include (but are not limited to):

- Fractional-order calculus theory;
- Fractional-order oscillator designs and realizations;
- Fractional-order control systems and implementation;
- Digital and numerical approximations for solutions of fractional-order systems;
- Stabilization of the fractional dynamical system;
- Response of the fractional dynamical system;
- Applications of fractional-order dynamical systems.

Guest Editors

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Dr. Guidong Yang

Dr. Dongmei Huang

Deadline for manuscript submissions

closed (15 August 2024)



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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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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).