Special Issue

Fractional Order Systems: Deterministic and Stochastic Analysis

Message from the Guest Editor

We strictly invite, via this open call for papers, strong interesting contributions providing original results which have been obtained from modern computational techniques of theoretical, experimental, and applied aspects of both deterministic and stochastic fractional dynamic systems. Topics to be included are:
Appropriate fractional derivative senses in applied sciences;
Computational methods for fractional dynamical systems;
Fractional inverse problems: modeling and simulation;
Cancer dynamic fractional systems: optimality and modeling;
Optimal control for fractional models of HIV/AIDS infection;
Latest advancements on COVID-19 pandemic fractional systems;
Continuous and discrete fractional systems with randomness;
Uncertainty quantification for random fractional dynamic systems;
Stochastic analysis for fractional mathematical models;
Instantaneous impulsive fractional equations and inclusions;
Applications of fractional problems in science and engineering;
Implementation methods and simulations for fractional models;
Fractional reaction-diffusion and Navier–Stokes equations;
...

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2021)

Fractal and Fractional

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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).

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