

## Special Issue

# Advances in Dynamics and Control of Fractional-Order Systems

### Message from the Guest Editor

The focus of this Special Issue is to continue to advance research on topics relating to the modeling, dynamic analysis, control, and application of fractional-order systems. Topics that are invited for submission include (but are not limited to) the following:

- Resonance, bifurcation, and chaotic behavior in fractional-order systems;
- Resonance analysis and stability analysis of fractional-order systems;
- Nonlinear dynamics of fractional-order systems;
- Uncertain fractional-order system;
- Adaptive control of fractional-order systems;
- Backstepping control of fractional-order systems;
- Model predictive control for fractional-order systems;
- Intelligent control of fractional-order systems;
- Fractional-order optimization;
- System identification for fractional-order models.

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### Guest Editor

Dr. Ruihong Li

School of Mathematics and Statistics, Xidian University, Xi'an, China

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### Deadline for manuscript submissions

31 July 2026



## 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.

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### Editor-in-Chief

Prof. Dr. Carlo Cattani

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### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

#### Journal Rank:

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).