## **Special Issue**

## Data-Driven Modeling, Prediction and Control of Fractional-Order Systems

## Message from the Guest Editors

The aim of this Special Issue is to show the control engineering research community the usefulness of the data-driven discovery of fractional-order systems, ranging from modeling to control prediction. It is our sincere hope that this Special Issue can show the important theoretical significance and practical values of data-driven modeling, prediction, and control of complex systems, and inspire further research of this topic. Topics of this Special Issue include, but are not limited to, the following:

- Data-driven modeling and identification for fractionalorder ODE/PDE systems;
- Data-driven learning and prediction of fractional-order ODE/PDE systems;
- Data-driven controller design for fractional-order ODE/PDE systems;
- Data-driven optimal control of fractional-order ODE/PDE systems;
- The applications of advanced fractional data-driven modeling, prediction, and control methods in climate, epidemiology, finance, robotics, turbulence, etc.

We look forward to your contributions.

## **Guest Editors**

Dr. Fudong Ge

Dr. Ying Luo

Prof. Dr. Yangquan Chen

## **Deadline for manuscript submissions**

30 May 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.

### Editor-in-Chief

Prof. Dr. Carlo Cattani

Engineering School (DEIM), University of Tuscia, Largo dell'Università, 01100 Viterbo, Italy

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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).

