

## Special Issue

# Advances in Fractional-Order Multiagent Systems: Theory and Applications

### Message from the Guest Editor

Multi-agent systems involve a group of agents that perceive and act to complete a complex task in a distributed manner. As a generalization of integer-order multiagent systems, fractional-order multiagent systems possess significant advantages in accurately modeling and characterizing dynamic behaviors of many real-world systems because of their unique characteristics of historical memory. The focus of this Special Issue is to continue to advance research in **all aspects of fractional-order multiagent systems**. Topics that are invited for submission include (but are not limited to):

- Linear fractional-order multi-agent systems;
- Nonlinear fractional-order multi-agent systems;
- Uncertain fractional-order multi-agent systems;
- Distributed coordination of fractional-order multi-agent systems;
- Distributed optimization of fractional-order multi-agent systems;
- Convergence time analysis of fractional-order multi-agent systems;
- Adaptive/robust control of fractional-order multi-agent systems;
- Fault-tolerant control of fractional-order multi-agent systems;
- Applications of fractional-order multi-agent systems.

---

### Guest Editor

Dr. Ping Gong

School of Mathematics and Statistics, Guangdong University of Foreign Studies, Guangzhou, China

---

### Deadline for manuscript submissions

closed (15 September 2025)



## Fractal and Fractional

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.0



[mdpi.com/si/170758](https://mdpi.com/si/170758)

*Fractal and Fractional*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[fractalfract@mdpi.com](mailto:fractalfract@mdpi.com)

[mdpi.com/journal/  
fractalfract](https://mdpi.com/journal/fractalfract)





# Fractal and Fractional

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.0



[mdpi.com/journal/  
fractalfract](https://mdpi.com/journal/fractalfract)



## 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

---

### 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 19.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).