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

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Deadline for manuscript submissions

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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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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).