Special Issue

Applications of Fractional-Order Grey Models

Message from the Guest Editors

Fractional-order grey systems refers to a class of emerging theories that incorporate concepts from fractional-order calculus into the establishment of grey models. Compared with traditional grey models, the fractional-order grey models have stronger stability, higher flexibility and wider application prospects. They can be further divided into fractional-order accumulating grey models and fractional-order derivative grey models. Fractional grey models have been widely used in various fields such as agriculture, industry, society, economy, management, transportation, and energy, and relevant achievements are constantly emerging.Topics that are invited for submission include (but are not limited to):   Fractional-order grey modelling algorithm; Fractional-order grey model theory improvements; Applications of fractional-order grey models for energy consumption, traffic flow, air quality, natural disasters; Applications of fractional-order grey models in agriculture, settlement prediction, supply chains;

Guest Editors

Dr. Shuli Yan

School of Management Science and Engineering, Nanjing University of Information Science and Technology, Nanjing 210044, China

Prof. Dr. Lifeng Wu

College of Management Engineering and Business, Hebei University of Engineering, Handan 056038, China

Deadline for manuscript submissions

14 March 2025

Fractal and Fractional

About the Journal

Message from the Editor-in-Chief

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 20.9 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2024).