

Special Issue

Fractional Modeling, Control, Analysis and Applications

Message from the Guest Editors

The Special Issue focuses on the topics of fractional calculus, modeling and identification of fractional dynamical systems, fractional order control, and fractional order analysis for related applications. This Special Issue will show the important theoretical significance and practical values of fractional calculus. Topics include but are not limited to:

- Fractional system mathematical modeling and identification;
- Fractional system modeling with artificial intelligence/machine learning;
- Fractional-order PDE system modeling and control;
- Fractional modeling and control on mechatronics;
- Fractional control design, analysis and optimization;
- Fractional applications on motion and servo systems;
- Fractional applications on electronics systems;
- Fractional applications on robotic systems.

Interdisciplinary system modeling and controls in Engineering are particularly welcome in this Special Issue.

Guest Editors

Prof. Dr. Ying Luo
Prof. Dr. Fudong Ge
Dr. Jorge Muñoz

Deadline for manuscript submissions

closed (30 October 2024)



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Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).