

Special Issue

Fractional Calculus and Models in Finance and Economics

Message from the Guest Editors

This Special Issue of Mathematics aims to encourage researchers to submit high-quality papers delving into innovative applications of fractional calculus and related models for a deeper comprehension and prediction of economic and financial phenomena. Topics of interest include fractional and multifractional models, fractional stochastic volatility, scaling and self-similarity, and long memory. Keywords

- fractional calculus
- fractional differential equations
- fractional and multifractional stochastic processes
- long memory
- scaling
- self-similarity
- non-integer order dynamics
- memory effects
- non-local interactions
- time-varying regularity
- stochastic volatility
- anomalous diffusion
- power-law behavior
- complex systems modeling
- applications in finance and economics

Guest Editors

Prof. Dr. Sergio Bianchi

Department of MEMOTEF, Sapienza University of Rome, 00161 Rome, Italy

Dr. Massimiliano Frezza

MEMOTEF, Sapienza University of Rome, Rome, Italy

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closed (31 March 2026)



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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

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