



Advanced Methods in the Mathematical Modeling of Financial Markets

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Message from the Guest Editors

This Special Issue will help narrow the gap between advanced mathematical models and financial market research by providing a collection of articles illustrating the applicability of new mathematical tools and methods to a wide range of financial market themes, including, but not limited to, analytical or numerical models for adaptive, co-evolutionary, and self-poetic financial markets; analytical models of the evolution of preferences on the financial market (chreodes of preference); mathematical embedding of the new concept of antifragility as working on the financial markets; mathematical modeling of the financial market as a second-order cyber system.

This Specific Issue proposes a generalized hypothesis on the financial market mechanism from the point of view of either its state resilience (that is, homeostasis) or dynamic resilience (that is, homeorhesis). Submissions are invited for research papers presenting novel results, using a logical, behavioral, institutional, and especially quantitative approach for the more realistically modeling of financial markets.





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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.

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