fractal and fractional

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Fractal Dynamics and Machine Learning in Financial Markets

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to explore the interplay between complex, fractal, and fractional dynamics in financial markets and speculation, and how these techniques can provide valuable insights into asset pricing, market behavior, risk management and corporate finance. Authors are encouraged to delve into various aspects, including (but not limited to):

Memory models and their applications in financial markets, both univariate and multivariate.
The use of complex and fractional modeling techniques to analyze and predict asset prices and market dynamics.
The application of complex and fractional approaches in econophysics, with a focus on speculative behaviors.
The utilization of complex and fractional methods to model and understand the intricacies of financial markets.
Leveraging big data for complex and fractional analysis to enhance trading strategies and corporate financial decision making.
The integration of fractional order advanced control systems, including machine learning in high-frequency trading, speculation, and corporate finance.