



Stochastic Modelling in Financial Mathematics II

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Message from the Guest Editor

Financial mathematics (also known as mathematical finance and quantitative finance) is a field of applied mathematics, concerned with the mathematical and stochastic modelling of financial markets.

In financial mathematics, modelling entails the development of sophisticated mathematical and stochastic models, and one may take, for example, the share price as a given and attempt to use stochastic calculus to obtain the corresponding value of derivatives of the stock. Thus, many problems, such as derivative pricing, portfolio optimization, risk modelling, etc., are generally stochastic in nature, and, hence, such models require complex stochastic analyses.

This current Special Issue is exactly devoted to modern trends in financial mathematics associated with stochastic modelling, including modelling of big data. Topics from many areas, such as high-frequency and algorithmic trading (limit order books), energy finance, regime switching, and stochastic volatility modelling, among others, have shown to have deep applicable values, which are useful for both academics and practitioners.





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Message from the Editor-in-Chief

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