

Special Issue

Advances in Mathematical Finance and Insurance

Message from the Guest Editors

Mathematical Finance and Insurance have undergone transformative growth, fueled by advances in probability, statistics, and economic theory. These fields not only provide rigorous foundations for industry practices but also propel theoretical research forward. Today, the convergence with data science and computing—including deep learning, large language models, and generative AI—is creating unprecedented research opportunities. Simultaneously, emerging challenges in climate risk, energy, fintech, and cyber risk demand novel theoretical frameworks. The aim of this Special Issue is to provide a platform to communicate novel and exciting research results which are relevant to advancing the fields of Mathematical Finance and Insurance. We sincerely welcome colleagues from both academia and industry to share their latest, high-quality, and cutting-edge research works in the fields. All areas of Mathematical Finance and Insurance are very welcome.

Guest Editors

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Deadline for manuscript submissions

31 August 2026



Mathematics

an Open Access Journal
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Impact Factor 2.2
CiteScore 4.6



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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.

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