Special Issue

Advances in Risk Models and Actuarial Science

Message from the Guest Editor

Actuarial science is an important branch of applied mathematics, in the context of insurance markets, using countless theoretical advancements in mathematics that have led to successful applications in risk management and the development of insurance risk models. The field faces dynamic challenges, such as climate change, cybersecurity threats, shifting social behaviours, and demographic changes. At the same time, advancements in computing technologies and the development of innovative techniques in areas like big data analysis, machine learning, data analytics, and artificial intelligence are creating exciting new research opportunities. Actuaries are now tasked with tackling a wide range of newly emerging risks. These challenges require integrating novel risks into existing models or developing new assessment methodologies, offering deeper insights into insurance risk modelling. This Special Issue serves as an invitation to researchers and professionals from both academia and industry to share their groundbreaking contributions, helping to enrich and advance this multidisciplinary field.

Guest Editor

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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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