

Special Issue

Actuarial Statistical Modeling and Applications

Message from the Guest Editor

The field of actuarial science has seen rapid advancements due to the increasing complexity of risk assessment and management across various sectors, including insurance, finance, and healthcare. As data become more abundant and sophisticated statistical methods evolve, there is a growing need to integrate innovative modeling techniques to address emerging challenges. Recent trends indicate a shift towards more data-driven approaches, with an emphasis on machine learning and artificial intelligence. However, actuaries face significant challenges, including the need for robust validation methods, regulatory compliance, and the ethical implications of algorithmic decision making. This Special Issue will provide a platform for discussing these challenges and exploring solutions that ensure the integrity and reliability of actuarial models. By fostering a dialog around innovative methodologies and the practical implications of actuarial statistical modeling, this Special Issue seeks to advance the field and equip practitioners with the tools necessary to navigate an increasingly complex risk landscape.

Guest Editor

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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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