

Special Issue

Probability Modeling and Statistical Inferences in Medical Research

Message from the Guest Editor

As more and more mathematicians and statisticians work in the field of medical research, more probability and statistical methods are developed in this area. This Special Issue of *Mathematics* focuses on the latest developments and applications in these areas, addressing the growing complexity of healthcare data and the need for robust analytical methods. We welcome submissions that demonstrate innovative applications and theoretical advancements in medical research. Topics of interest include Bayesian methods, survival analysis, epidemiological modeling, genomic data analysis, health economics, and the integration of machine learning with probabilistic approaches. This issue aims to bridge the gap between theoretical developments and practical applications, fostering interdisciplinary collaboration and driving innovation in medical research. We look forward to contributions that highlight how advanced statistical techniques can enhance our understanding of complex medical phenomena and improve healthcare outcomes.

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2025)



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).