

Special Issue

Stochastic Processes and Modeling in Biology

Message from the Guest Editor

This Special Issue unfolds a mathematical tapestry that revolutionizes our comprehension of ecological and biological phenomena. Rooted in the intricate realm of stochastic processes, this collection of articles illuminates how mathematical modeling transforms our understanding of diverse biological systems. By bridging the worlds of mathematics and biology, this Special Issue acts as a catalyst for interdisciplinary collaboration. It beckons mathematicians, ecologists, and biologists to collectively explore the transformative potential of stochastic process modeling, fostering a deeper appreciation of the complexity and unpredictability inherent in the natural world.

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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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).