

Special Issue

Recent Advances in Mathematical Epidemiology and Applications

Message from the Guest Editor

From the perspective of “past–present–future,” infectious disease modeling is undergoing a transition from classical mathematical theories to the challenges of high-dimensional and complex systems. This Special Issue serves as a significant academic convergence, aiming to systematically review and synthesize the innovative applications of both traditional dynamical models and modern AI tools in the context of infectious disease modeling. It seeks to build a solid theoretical foundation and a robust modeling toolkit in preparation for potential future pandemic threats.

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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