

Special Issue

Mathematical Modeling and Optimal Control of Infectious Diseases

Message from the Guest Editors

We are pleased to invite researchers and practitioners to submit their original contributions to this Special Issue of *Mathematics* (Section E: Applied Mathematics) entitled “Mathematical Modeling and Optimal Control of Infectious Diseases”. Infectious disease dynamics continue to pose major challenges to public health worldwide, highlighting the need for advanced mathematical approaches to understand transmission mechanisms, evaluate intervention strategies, and support evidence-based decision making. This Special Issue aims to bring together high-quality research on mathematical modeling, optimal control, data-driven methods, and related analytical and computational techniques that contribute to the prevention and management of infectious diseases. We welcome innovative theoretical developments as well as interdisciplinary applications addressing contemporary epidemiological challenges.

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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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