Special Issue

Mathematical Epidemiological Models: Classical and Interdisciplinary Applications

Message from the Guest Editor

Mathematical epidemiological models are frequently given in terms of coupled nonlinear differential equations that describe the evolution of interacting populations. They describe how a key property of interest, such as a virus, is passed over from individuals to individuals. In doing so, they describe the spread of that property (e.g., the virus). While classical applications of epidemiological models are concerned with the spread of infectious diseases in populations, there are various fascinating and inspiring applications in related and interdisciplinary fields. For example, the spread of a virus in a human body can be described by virus dynamics models that have much in common with epidemiological models. This Special Issue aims to bridge the gap from classical to interdisciplinary applications of mathematical epidemiological models. It offers a platform for researchers from diverse fields to share their work under a common theme—a platform that is likely to produce cross-disciplinary insights.

Guest Editor

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Deadline for manuscript submissions

31 October 2025

Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.6

mdpi.com/si/219135

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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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