

Special Issue

Statistical Methods for the Analysis of Infectious Diseases

Message from the Guest Editors

The COVID-19 pandemic has posed a number of new challenges for statistical methods in the analysis of public health data. Examples include modeling incomplete noisy spatiotemporal data (e.g., number of infected and deaths), methods for the analysis of existing and new treatments applied to infectious diseases, and analysis of health systems to better face the pandemic, to mention a few. The aim of this Special Issue is to contribute to the global pandemic effort by providing a framework where to present and discuss novel ideas and statistical methods for the analysis of these new challenges. Topics adequate for this Special Issue include but are not limited to the following:

- Computational methods for the analysis of infectious diseases;
- Detection of disease outbreaks;
- Disease surveillance methods;
- Health economics;
- Joint modeling of survival and longitudinal data;
- Spatiotemporal modeling for disease mapping.

Guest Editors

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Deadline for manuscript submissions

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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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