



The Mathematics of Pandemics: Applications for Insurance

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Message from the Guest Editors

Dear Colleagues,

In terms of financial impact, the shock to the global economy from COVID-19 has been faster and more severe than the 2008 global financial crisis and even the Great Depression. Unlike other rare events, such as tsunami or an earthquake, a pandemic can last over relatively long periods, putting severe strain on a households' income through isolation restrictions.

This Special Issue is focused on the application of mathematics for rare events such as epidemics/pandemics so that the countries are better informed and prepared for next waves or next pandemics. We are interested in a wide range of topics, including, among others, mortality modelling and economic impact for pandemics, epidemic compartmental models, group testing, optimal strategies for lockdowns, outlier detection for pandemic-related data and design of new insurance protection products.

- COVID-19
- pandemics
- insurance mathematics
- catastrophe risk
- social protection





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Message from the Editor-in-Chief

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