Special Issue

Data-Driven Modelling of Infectious Diseases

Message from the Guest Editor

The frequent occurrence of infectious diseases continues to presents substantial challenges to public health under global urbanization. How to improve the surveillance systems, transmission and control for an emerging infectious disease under the condition of urbanization has become an urgent problem. Applying mathematical modelling in the epidemics spread was first investigated in 1927. Although there is no guarantee that the current mathematical models are completely consistent with the actual propagation process, the extremely close and accurate simulation is still of great help. This could guide policy makers on adjusting measures to reduce the risk of bigger outbreaks. Topics of the research papers for this Special Issue include but are not limited to: data-driven models for forecasting and controlling of the epidemics; visualization and analytics tools that overcome cost and resource barriers to achieve data needs; coordinating on data sharing among groups; statistical or AI-driven models to control or contain outbreaks.

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Message from the Editor-in-Chief

Data is an open access journal that publishes scientific data in a reliable, citable, and accountable manner. Data grants the opportunity to formally share valuable data, for academic credit. It covers a wide range of disciplines in which data is generated so that published data is discoverable and available for wider re-use. The journal has highly accomplished scientists from a variety of disciplines on the editorial board. The publication emphasizes clarity, honesty, quality, and novelty and has a rigorous peer-review process. We strongly encourage you to share your data vision in Data.

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