



Recent Advances in Mathematical Modeling of COVID-19 and Other Infectious Diseases

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Message from the Guest Editors

Dear Colleagues,

Mathematical modeling is a valuable tool in understanding the dynamics of infectious diseases (such as the coronavirus disease COVID-19). This involves using mathematical equations to represent the transmission and control of infectious diseases at the population level. The mathematical analysis of continuous models, the construction of their various time-discrete variants, and the solving of appropriate inverse problems are important tools for uncovering the behaviors over time of many crucial parameters that characterize the diseases' dynamics. These models are essential for assessing the effectiveness of vaccination strategies, determining the best vaccination ages and target groups, and predicting future growth patterns of infectious diseases.

This Special Issue welcomes the submission of research and review articles that address the development of novel mathematical modeling and its applications.

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