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Mathematical and Computer Modelling of Disease Control and Treatment Strategies

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Message from the Guest Editors

Deterministic or stochastic models are essential to study and address acute diseases in humans, animals, and plants. This Special Issue uses mathematical and computer modeling, with selected examples from the medical and health sciences. Physical or mathematical and computer techniques should be illustrated with real-world application in medical science.

The theoretical (including physical and mathematical) and computational analysis of the proposed dynamical system is a crucial step in the medical modeling of various problems. Indeed, based on the physiological or biological properties involved in the modeling, efficient mathematical and numerical solution algorithms can be designed and analyzed.

This Special Issue collects papers intending to explore new modeling aspects of medical and health science. Special attention is devoted to the control of transmissible and non-transmissible diseases, as well as the design of fast algorithms to solve related medical problems. The papers also aim to design, develop, and apply computational models of human organ systems to address issues of impact in critical illness and clinical crisis scenarios.











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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 iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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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