Special Issue

Mathematical Modeling of the Infectious Diseases and Their Controls

Message from the Guest Editor

The mathematical modeling of infectious diseases and the mitigating effects of controls implemented by humans is of great importance for public health. There are many existing and newly emerging diseases that continuously affect the population through infections and deaths. Mathematical and statistical modeling is a great tool to study such infectious diseases and to determine their complex behavior. Further, potential controls can be measured in line with biological or clinical suggestions, making it possible to determine the optimal cost-effective controls that should be used to curtail these diseases. Infectious diseases are disorders usually caused by an organism, such as fungi, bacteria, viruses, or parasites, and are the leading causes of death in humans. Researchers and health authorities are continuously working to reduce the spread of the disease and to prevent their transmission amongst the population, yet there are many diseases that need further study to reduce their spread...

Guest Editor

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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