symmetry

an Open Access Journal by MDPI

IMPACT FACTOR 2.2

CITESCORE 5.4

Mathematical Modeling of the Infectious Diseases and Their Controls

Guest Editor:

Dr. Muhammad Altaf Khan
Faculty of Natural and Agricultural Sciences, University of the Free State, Bloemfontein, South Africa

Deadline for manuscript submissions:
31 October 2024

Message from the Guest Editor

Dear Colleagues,

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...

symmetry

IMPACT FACTOR 2.2

CITESCORE 5.4

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov
1. Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain
2. Institute of Space Sciences (ICE-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (General Mathematics)

Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
𝕏@Symmetry_MDPI