Special Issue

Mathematical Epidemiology in Medicine & Social Sciences

Message from the Guest Editor

The transmission of infectious diseases has traditionally been modelled by coupled differential equations, which usually gives rise to simple patterns of activity, including pandemic outbreaks, forced seasonal periodic incidence or constant persistent levels of infection. This classical approach has dominated the field of mathematical epidemiology since the beginning of the past century. However, many problems in epidemiology involve a large but finite number of individuals or cells, each of them with a set of attributes and characteristics that we must take into account for the efficient and realistic modelling of the disease at hand. Targeting specific populations during vaccination campaigns or social groups involved in pernicious addictions can only be adequately simulated by considering discrete models instead of the usual compartmental approach...

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.

Editor-in-Chief

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