Special Issue

Entropy-Based Methods to Characterize Infectious Diseases

Message from the Guest Editor

The crisis of the COVID-19 pandemic represents a tremendous challenge for the scientific community. It has fostered the development of new approaches in all fields of science to understand the disease and mitigate its propagation. One of the key issues is related to propagation modeling and dynamics characterization. Population behavior, governmental non-drug control measures, and the appearance of virus mutations and variants implies a complex behavior that makes propagation forecasting and dynamics characterization very difficult. The aim of this Special Issue is to present surveys as well as original and recent developments focusing on how entropy-based approaches can be used to properly address the previously mentioned open topics. The contributions can be theoretical or applied, based on data series.

Guest Editor

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

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