Special Issue

Advances in Mathematical Biosciences

Message from the Guest Editor

In recent decades, mathematical and statistical methods have increased greatly in importance in health and biomedical research. There are two main approaches to mathematically infer knowledge about unknown quantities from observed data. The most common approach in current biomedical research is frequentist statistics, in which observations are evaluated with respect to their compatibility with pre-specified hypotheses on the values of unknown quantities. The other approach, historically founded in the works of Bayes and Laplace in the 1700s but now rising to renewed prominence due to computational and methodological developments, is Bayesian statistics, in which observations are used to update a priori assumed distributions of probable values of unobserved quantities...

Guest Editor

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About the Journal

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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