Symmetry in Computational Mathematics and Biophysics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue is dedicated to demonstrating the strong bond between the two fields of Computational Mathematics and Biophysics and showcasing the most recently developed mathematical models, numerical methods, and computing algorithms to address questions arising in the field of Biophysics. Such models include, but are not limited to, differential equation models in Molecular Biology, Cardia Physiology, Thermal Science, etc., and such numerical methods include, but are not limited to, finite difference methods, finite volume methods, finite element methods, etc. In addition, (parallel) computing algorithms, which are developed to utilize the computing power of modern high-performance computing clusters to accelerate the calculations for solving large-scale problems in Biophysics are also welcome in this Special Issue. Your consideration of publishing a work with us is highly appreciated.

Special Issue

Editor-in-Chief

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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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