



symmetry



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Machine Learning and Symmetry Numerical Analysis in Biomedical Informatics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

With recent advancements in medical and health informatics, disease and treatment research data have grown exponentially, and the nature of such big data is increasingly complex. There are many advantages to be gained with the application in healthcare of advances in machine learning and big data; however, there are many challenges in providing systems accurate enough to be useful to clinicians and patients. Not only are large amounts of data available, but sensitivity and specificity must be given special attention, as well as ensuring support systems fit rationally into the health system. Recently, machine learning and symmetry numerical analysis have been applied for effectively diagnosing and predicting diseases from healthcare data and biomedical data. Intelligent assisted computational models of user information preferences and interaction behaviors in biomedical informatics can also be designed. The aim of this Special Issue is to gather new advances in the use of machine learning and symmetry numerical analysis in biomedical informatics. We welcome both original research and review articles.



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Special Issue



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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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