Special Issue

Application of Information Theory in Biomedical Data Mining

Message from the Guest Editor

In this era of big data in biomedicine, we now have access to high-throughput, high-dimensional complex data collected to help to better understand the biology of living systems. The availability of more data does not, however, guarantee more knowledge, unless more advanced and powerful data analysis tools are developed to help us to mine the data and extract that knowledge. The high-dimensionality, heterogeneity, and complexity of biomedical big data renders many traditional statistical and computational methods obsolete and thus, the area of biomedical data mining calls for new algorithms and methods that embrace complexity. Information theory originates from information science and was developed to quantify, store, and transmit information. Information theoretical measures have been used to quantify correlations and interactions of attributes in biomedical data mining and hold great potential. In this Special Issue, we would like to feature a series of novel applications of information theoretical measures for biomedical data mining. We welcome any original articles relating to, but not limited to, the topics described herein.

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.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

Editor-in-Chief

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