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Information Theory in Emerging Biomedical Applications

Guest Editor:

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Message from the Guest Editor

The focus of this Special Issue is the application of tools that emerged from information theory to (multivariable) analysis of biomedical data. This covers a variety of topics, from extracting otherwise hidden information that reveals the complex relationship between seemingly unrelated variables to DNA data storage. The topics include, but are not limited to, entropy and complexity analysis, copula density and copula entropy, the question of whether information can be squeezed from the bottleneck principle, dimensionality reduction and machine learning, compression and complexity, DNA storage and alignment, nano-signals, but also practical problem-solving applications considering biomedical time series and images. Review papers are welcomed. The scope is broad and provides many opportunities for contributions.



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Special Issue



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Editor-in-Chief

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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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