Special Issue

Statistical Methods for Complex Systems

Message from the Guest Editors

A complex system is a large scale framework which consists of many interacting components. Complex systems are intrinsically difficult to analyze and model, due to the involved nature of interactions among their parts. The use of statistical methods to study the behavior of such systems, and to explain their dynamics, has gained a significant amount of attention, both from a theoretical and an empirical viewpoint. In addition, there have been many advances in applying Shannon theory to complex systems, including correlation analysis for spatial and temporal data, the study of entropy and its derivatives, and clustering techniques for complex networks. In this Special Issue we invite contributions that focus on statistical methods for complex systems, with an emphasis on information-theoretic principles.

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Deadline for manuscript submissions

closed (15 August 2022)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/41144

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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.

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