



entropy



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The Ubiquity of Entropy II

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Message from the Guest Editor

Entropy is one of the most important concepts in physics. Its prominent role in the description of macroscopic systems was first recognized by Clausius, Maxwell, Kelvin, Boltzmann, and many others when the foundations of Statistical Mechanics were laid. Since then, the domain of application of the concept of entropy has been greatly extended, and entropy is now regarded as a paradigm with which the most intriguing challenges of modern physics are faced.

In the present Issue, pioneering works are considered in which the concept of entropy is applied in order to provided advances, for instance, in the description of the following:

1. Complex networks that describe biological, social, economic, or dynamical systems;
2. Complex quantum models that are used for the characterization of complexity quantum networks, in the quantum machine-learning problem, or in the development of quantum technologies.



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Special Issue



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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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