Special Issue

Entropy and Non-Equilibrium Statistical Mechanics

Message from the Guest Editors

Non-equilibrium statistical mechanics has a long history and diverse aspects. It has been a major research field in physics and will remain so in the future. Even regarding the concept of entropy, there exists a longstanding problem concerning its definition for a system in a state far from equilibrium. The aim of this Special Issue is to offer the possibility to discuss and present up-to-date problems that may not be restricted to statistical mechanics. Theoretical and experimental papers are both accepted and unifying research works that address both of them are encouraged. As the entropy itself is the central element of non-equilibrium processes, papers discussing various formulations of the second law and consequences are also welcome. In this Special Issue, recent progress in kinetic approaches to hydrodynamics, rational extended thermodynamics, entropy in a strongly non-equilibrium stationary state, and related topics will be reported. Review articles as well as the original research works will be presented.

Guest Editors

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Deadline for manuscript submissions

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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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