Entropy Transformations in Nonequilibrium and Other Complex Systems

Guest Editor:

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Deadline for manuscript submissions:
closed (26 April 2022)

Message from the Guest Editor

This Issue will accept unpublished original papers, short communications, and appropriate reviews that pertain (but are not restricted) to the following research areas:

- Development of the theoretical apparatus of entropy and its application for complex systems.
- Nonequilibrium processes and flows in different media.
- Comparison of the use of thermodynamic and kinetic approaches for entropy transformations.
- Dissipative structures and extremes of entropy generation.
- Methods for the description of nonequilibrium processes in biological systems.
- Complexity and transformation of information in genetics.
- Statistical modeling in complex neural networks.
- Entropy and information in many-particle systems.
- Transition between order and disorder including entropy and information transforms.

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Special Issue

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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