



Special Issue on Entropy and Its Application

Call for Papers

Entropy means the degree of disorder of the system. The entropy concept was initially derived from thermodynamics and is credited to the work of Rudolf Clausius. In the past 150 years, entropy has developed from the isolated system of thermodynamics to an open system, from the equilibrium state to the nonequilibrium state, from linear to nonlinear. With the penetration and comprehensive development of various disciplines, the concept of entropy has been far beyond the scope of physics, and extends from a narrow sense to a generalized entropy. It has important applications in cybernetics, probability theory, number theory, astrophysics, life science and other fields. In all these applications, one is faced with problems related to the level of description of the system or coarse graining, which interestingly influence the final results.

In this special issue, we intend to invite front-line researchers and authors to submit original researches and review articles on exploring **entropy and its application**. Potential topics include, but are not limited to:

- Maximum entropy theory
- Equilibrium & non-equilibrium statistical physics
- Information theory: entropy and mutual information
- Negative entropy concept
- Quantum mechanics and entropy
- Entanglement entropy
- Symmetry and entropy
- Entropy function
- Thermodynamic entropy
- Application of entropy (Cybernetics, Life science, Medicine and pharmacy, Sociology, etc.)

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue – Entropy and Its Application**” should be chosen during your submission.

According to the following timetable:



Submission Deadline	August 22nd, 2018
Publication Date	October 2018

Guest Editor:

For further questions or inquiries
Please contact Editorial Assistant at
jmp@scirp.org