Special Issue

Entropy, Nonlinear Dynamics and Complexity

Message from the Guest Editor

Concepts such as 'entropy' or 'complexity' have been approached from many different angles in physics, mathematics, computer science and beyond. The interdisciplinary arena spanned by these concepts inherits ideas and tools from nonlinear dynamics (e.g. Kolmogorov–Sinai entropy, Renyi entropies), information theory (Shannon entropy, statistical complexity), statistical physics (Boltzmann entropy, Tsallis entropy), or network science (graph entropy), and make use of these to describe and understand the behaviour of complex systems in an amazingly wide range of contexts. The aim of this Special Issue is to encourage researchers to present original and recent developments on topics closely related to entropy and complexity that emerge (typically) in nonlinear dynamical systems and related complex systems. The type of contributions can be theoretical or applied: they can address a particular fundamental open problem where the authors push forward the state of the art or can represent sensible examples that make efficient use of these tools in different contexts across physics, biology, economics or the computational social sciences, among others.

Guest Editor

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About the Journal

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.

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