Nonadditive Entropies and Complex Systems

Guest Editors:

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Message from the Guest Editors

Complexity and complex systems emerge in natural, artificial, and social contexts, and have attracted strong and enthusiastic scientific attention all over the world during the last decades. The study of these fascinating systems focuses on concepts of emergent behavior, living organisms, languages, earthquakes, economics, ecology, social networks, and other fundamental problems of contemporary science and societies. Most of these systems are out-of-equilibrium and present weak chaos, long-range correlations, nonergodic behavior, multifractal hierarchical structures, for which standard equilibrium Boltzmann-Gibbs statistical mechanics is not applicable. In the last few decades, a large variety of complex systems, in various fields, has been successfully described using nonextensive generalized formalisms of statistical mechanics.

The aim of the present Special Issue is to solicit original and interdisciplinary contributions which cover new developments and original applications of generalized statistical mechanics to complex systems of various natures.

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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