Special Issue

Information Theoretic Measures and Their Applications

Message from the Guest Editors

The concept of entropy, an ever-growing physical magnitude that measured the degree of decay of order in a physical system, was introduced by Rudolf Clausius in 1865 through an elegant formulation of the second law of thermodynamics. Seven years later, in 1872, Ludwig Boltzmann proved the famous *H*-theorem, showing that the quantity *H* always decreases in time, and in the case of perfect gas in equilibrium, the quantity *H* was related to Clausius' entropy *S.* The dynamical approach of Boltzmann, together with the elegant theory of statistical ensembles at equilibrium proposed by Josiah Willard Gibbs, led to the Boltzmann–Gibbs theory of statistical mechanics, which represents one of the most successful theoretical frameworks of physics. In fact, with the introduction of entropy, thermodynamics became a model of theoretical science. For the present Special Issue, manuscripts focused on any of the abovementioned "*Information Theoretic Measures as Mutual Information,* Permutation Entropy Approaches, Sample Entropy, Wavelet Entropy and its Evaluations*"*, as well as, its interdisciplinaries applications are more than welcome.

Guest Editors

Dr. Osvaldo Anibal Rosso

Instituto de Física, Universidade Federal de Alagoas, Maceió 57072-970, Alagoas, Brazil

Dr. Fernando Montani

Instituto de Física La Plata, CONICET-Universidad Nacional de la Plata, La Plata, Diagonal 113 entre 63 y 64, La Plata 1900, Argentina

Deadline for manuscript submissions

closed (30 August 2020)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/25407

Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

mdpi.com/journal/entropy

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/journal/entropy

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.

Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, PubMed, PMC, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Physics, Multidisciplinary) / CiteScore - Q1 (Mathematical Physics)

MDPI