Special Issue

The Ubiquity of Entropy II

Message from the Guest Editor

Entropy is one of the most important concepts in physics. Its prominent role in the description of macroscopic systems was first recognized by Clausius, Maxwell, Kelvin, Boltzmann, and many others when the foundations of Statistical Mechanics were laid. Since then, the domain of application of the concept of entropy has been greatly extended, and entropy is now regarded as a paradigm with which the most intriguing challenges of modern physics are faced.

In the present Issue, pioneering works are considered in which the concept of entropy is applied in order to provided advances, for instance, in the description of the following:

1. Complex networks that describe biological, social, economic, or dynamical systems;
2. Complex quantum models that are used for the characterization of complexity quantum networks, in the quantum machine-learning problem, or in the development of quantum technologies.

Guest Editor

Dr. Roberto Franzosi
QSTAR and Istituto Nazionale di Ottica CNR, Largo Enrico Fermi 2, Florence, Italy

Deadline for manuscript submissions

closed (30 April 2022)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/74551

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