



Scale Invariance and Nonequilibrium Thermodynamics in Natural Systems

Guest Editor:

Prof. Dr. Adrian Tuck

Visiting Professor, Physics
Department, Imperial College
London, London, UK
a.tuck@imperial.ac.uk

Deadline for manuscript
submissions:

closed (31 January 2019)

Message from the Guest Editor

There has been an equivalent formalism of equilibrium thermodynamics in terms of fractal quantities for two or three decades. However, the derivation of a physical mapping in terms of Hamiltonian flux dynamics for open non-equilibrium systems is a more recent development. This Special Issue of *Entropy* is intended to offer a publication forum examining these ideas; experimental, observational and theoretical. It has been argued that since scale invariance has been observed on all scales from molecular to astronomical, the technique is potentially applicable to a very wide range of phenomena; the utility of entropy and chemical potential—the Gibbs energy of individual substances—should offer many avenues of exploration.





Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University
at Albany, 1400 Washington
Avenue, Albany, NY 12222, USA

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.

Author Benefits

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

High visibility: indexed by the Science Citation Index Expanded (Web of Science), MathSciNet (AMS), Inspec (IET), Scopus and other databases.

Rapid publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 19.1 days after submission; acceptance to publication is undertaken in 5 days (median values for papers published in this journal in the second half of 2018).

Contact Us

Entropy
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/entropy
entropy@mdpi.com
@Entropy_MDPI