



entropy



an Open Access Journal by MDPI

Noise-Driven Dynamics in Far-from-Equilibrium Systems

Guest Editors:

Prof. Dr. Luis L. Bonilla

Gregorio Millan Institute, Fluid Dynamics, Nanoscience and Industrial Mathematics, Escuela Politecnica Superior, Universidad Carlos III de Madrid, Av. de la Universidad, 30, 28911 Leganes, Spain

Prof. Dr. Stephen W. Teitsworth

Department of Physics, Duke University, Box 90305, Durham, NC 27708-0305, USA

Deadline for manuscript submissions:

closed (31 October 2020)

Message from the Guest Editors

Recently, there has been impressive experimental and theoretical progress concerning the dynamical properties of noise-driven systems that are far from equilibrium. At the same time, there is substantial theoretical effort to understand fluctuation properties in such systems by proposing new quantitative approaches to characterize the breaking of detailed balance. Similar phenomena are also observed across a diverse set of fields including climate modeling, nanoscale mechanical systems, active matter, colloidal particles, and electronic circuits. The proposed Special Issue of *Entropy* is targeted at experimental and theoretical physicists and applied mathematicians from a range of traditional fields spanning biophysics, nonlinear and statistical physics, condensed and soft matter physics, as well as climate physics for whom it will be stimulating to explore common sets of new and emerging experimental techniques and theoretical tools and approaches for understanding the noisy dynamics of far-from-equilibrium systems.



mdpi.com/si/33261

Special Issue



entropy



an Open Access Journal by MDPI

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 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)

Contact Us

Entropy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/entropy
entropy@mdpi.com
[X@Entropy_MDPI](https://twitter.com/Entropy_MDPI)