entropy

an Open Access Journal by MDPI

IMPACT FACTOR 2.0

Indexed in: PubMed

CITESCORE 5.2

# Graph Entropy and Its Applications

Guest Editors:

**Prof. Dr. Matthias M. Dehmer**

**Prof. Dr. Shenggui Zhang**

**Prof. Dr. Abbe Mowshowitz**

**Prof. Dr. Frank Emmert-Streib**

**Prof. Dr. Yongtang Shi**

**Prof. Dr. Zengqiang Chen**

Deadline for manuscript submissions:
**closed (30 November 2019)**

## Message from the Guest Editors

Information theory provides several measures to assess the complex systems associated with graphs and networks. These measures are based on Claude Shannon's well known entropy measure, which allows for quantifying the structural information content of a network. Quantitative values obtained in this way reflect underlying graph topology and serve as measures of graph complexity. However, such measures are relative to particular structural features, and thus it may be said that graph complexity is "in the eye of the beholder." This accounts in large part for the proliferation of entropy and related information-theoretic measures defined on graphs.

This Special Issue invites contributions that present new and original research based on the use of information-theoretic graph measures. Analytical contributions proving properties/relations or their application to any kind of data are welcome. Manuscripts reviewing the most recent state-of-the-art research on this topic will also be considered.

*entropy*

IMPACT FACTOR 2.0 | Indexed in: PubMed | CITESCORE 5.2

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