



entropy



an Open Access Journal by MDPI

Entropy in Real-World Datasets and Its Impact on Machine Learning

Guest Editors:

Prof. Dr. Jan Kozak

1. Department of Knowledge Engineering, University of Economics, 1 Maja 50, 40-287 Katowice, Poland

2. Łukasiewicz Research Network - Institute of Innovative Technologies EMAG, 40-189 Katowice, Poland

Dr. Przemysław Juszczuk

Systems Research Institute, Polish Academy of Sciences, 01-447 Warszawa, Poland

Deadline for manuscript submissions:

closed (15 December 2022)

Message from the Guest Editors

Nowadays, machine learning is considered as a group of various methods used to solve the most complex real-world problems. Its usability is crucial in fields such as medicine, finance, text mining, image analysis, and more. Among the most prominent examples of machine learning-related methods, we can find ensemble methods, multicriteria evolutionary algorithms, deep learning in neural networks, etc. Here, we are particularly interested in subjects connecting the entropy of datasets and the effectiveness of the machine learning algorithms.

The main aspect of this session is devoted to entropy in the still growing number of data available for users. Concepts such as big data and data streams are still increasingly gaining attention. Classical methods seem to give debatable efficiency among these types of data; thus, we believe that there is a necessity for continuous improvements in what is widely understood as machine learning. This session is dedicated to the analysis of real-world datasets, in particular, in terms of the entropy present in them and its impact on machine learning.



mdpi.com/si/84459

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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/entropy
entropy@mdpi.com
[X@Entropy_MDPI](#)