



entropy



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

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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.



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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.

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