Entropy Based Machine Learning Models

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Message from the Guest Editors

The submissions to this Special Issue are expected to contribute to the approaches of machine learning from the viewpoint of information theory. It aims to be a place where researchers share their work on entropy concepts to solve problems in supervised or clustering learning, and investigators on machine learning use information theory to evaluate the accuracy or to develop a dynamical acceleration of the process.

We seek submissions on the interplay between entropy and ML and include the following topics:

- Mutual information measures for machine learning modeling and prediction.
- Entropy-based methods for preprocessing highly structured data.
- Entropy-based ML for predicting data from engineering, medicine, socio-economy, etc.
- Complexity information of hybrid neural network architectures.

Special Issue

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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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