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Nonparametric Estimation of Entropy and Mutual Information

Guest Editor:

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Deadline for manuscript submissions:
closed (28 April 2022)

Message from the Guest Editor

In this Special Issue, we invite contributions on improving, or better understanding the limits of, nonparametric estimation of entropy and mutual information. We welcome unpublished original papers and comprehensive reviews on a wide spectrum of relevant topics, such as (but are not limited to) developing new nonparametric estimators, analyzing new theoretical properties of an existing estimator, drawing new connections between training objectives for neural networks and mutual information, and novel applications and experimental designs on nonparametric estimation.

- mutual information
- entropy
- nonparametric estimation
- variational models
- deep learning
- optimization
- representation 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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