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Information Theory in Machine Learning and Data Science II

Guest Editor:

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Message from the Guest Editor

Information theoretic measures such as entropy, mutual information, and information divergence, are useful in many machine learning and data science applications including model selection, structure learning, clustering, regression, classification, causality analysis, regularization, and extending machine learning algorithms to distributional features. In this Special Issue, we seek papers that discuss advances in the application of information theory in machine learning and data science problems. Possible topics of interest include, but are not limited to, estimation of information theoretic measures, deep learning approaches that incorporate information theory, fundamental limits of machine learning algorithms, optimization and learning with information theoretic constraints, information bottleneck methods, information theoretic approaches to adaptive data analysis, extending machine learning algorithms to distributional features, Bayes error rate estimation, and applications of information theory in reinforcement learning.



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Special Issue



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Editor-in-Chief

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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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