Towards the Understanding of Kernel and Neural Learning Methods via Information-Theoretic Learning (ITL)

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Message from the Guest Editors

In this Special Issue, we aim to bring together contributions towards the understanding of such single and deep structures from the analysis of their information content, as well as contributions that apply or analyze such structures from inferential, probabilistic, or information-theoretic points of view. An additional natural field of research is given by their hybridization, which can be done in many fruitful ways. Many ideas from the deep learning field can be transferred to the kernel method framework and vice versa.

The scope of the contributions is rather broad, including theoretical studies and practical applications to any kind of machine learning or statistical task, such as regression, classification, system identification, unsupervised learning, density estimation, clustering, etc.

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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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