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Information Measures with Applications

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Classical information measures such as entropy, relative entropy (Kullback–Leibler divergence), and mutual information have found numerous applications in storage, compression, transmission, cryptography, statistics, large deviations, gambling, and physics. However, over the years —arguably starting with the pioneering work of Alfréd Rényi (1921–1970)—other information measures were introduced and studied. Those include Rényi Entropy, Rényi Divergence, f-divergence, Arimoto's mutual information, Sibson's information radius, and others. These new measures typically generalize the classical measures and in some applications provide finer results. In recent years they have also found new applications in guessing, hypothesis testing, error exponents, task encoding, large deviations, etc.

For this Special Issue we solicit original papers presenting new applications of known information measures and new measures with interesting applications.

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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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