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Deep Generative Models

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Message from the Guest Editors

Generative models (GM) aim at learning a probabilistic model for high dimensional observations using unsupervised learning techniques. Learning deep generative models that are capable of capturing intricate dependence structures from vast amounts of unlabeled data presently appear as one of the major challenges of AI. Recently, different approaches to achieving this goal have been proposed, such as Kullback–Leibler divergence, VAEs and GANs.

The objective of this Special Issue is to provide an overview of deep generative methods covering energy-based models, variational auto-encoders, and generative adversarial networks, both in the i.i.d. and the dependent case.

Deadline for manuscript submissions:
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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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