

## Special Issue

# Neuro-Symbolic Machine Learning with a Focus on Entropy

### Message from the Guest Editors

The field of neuro-symbolic machine learning, with a specific emphasis on entropy, explores the integration of symbolic reasoning and neural networks. This interdisciplinary approach aims to combine the strengths of symbolic AI, which excels in logical reasoning, with the learning capabilities of neural networks. Entropy, a measure of uncertainty, plays a crucial role in refining the synergy between these two paradigms. The existing research focuses on leveraging entropy-based techniques to enhance the interpretability, robustness, and generalization of neuro-symbolic models, paving the way for more effective and explainable artificial intelligence systems. The intersection of neuro-symbolic computing and machine learning has sparked innovative research in recent years, offering new perspectives on addressing the challenges of combining symbolic reasoning with neural network approaches. This Special Issue aims to explore the role of entropy in advancing neuro-symbolic machine learning and understanding its implications across various domains.

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## Entropy

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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.

*Entropy* is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

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