Special Issue

Entropy for Data-Driven Decision-Making Problems

Message from the Guest Editors

Over the last few years, a need for data-driven decision-making modeling has arisen to deliver real-time solutions to problems by integrating models from the rapidly developing fields of machine learning, deep learning, and entropy. Machine learning is an approach for data analysis that constructs the analytical model by giving computer systems the ability to "learn." The concept of entropy was originally developed in the field of physics, but it is clear that entropy is deeply related to machine learning and deep learning. Furthermore, besides applications in machine learning, entropy is a general measure commonly used for the qualitative analysis of complex systems. In this regard, entropy is a powerful descriptive method that presents an operational and theoretical framework to attain both qualitative and quantitative descriptions of the intrinsic properties of machine learning and deep learning theories. In this Special Issue, we are interested in providing state of the art literature on entropy concepts and establishing a reliable connection between data-driven decision-making problems using machine learning and deep learning contexts.

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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.

Editor-in-Chief

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