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# **Entropy in Soft Computing and Machine Learning Algorithms**

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# **Message from the Guest Editors**

Soft computing and machine learning algorithms are used in different fields of science and technology. They are important tools designed to solve complex real-life problems under uncertainty.

Entropy is a powerful tool that has changed the analysis of information. The use of entropy has been extended in soft computing and machine learning methodologies, from measuring uncertainty to exploring and exploiting search spaces in optimization. Different kinds of entropy are used depending on what is required. Moreover, it is necessary to use soft computing and machine learning methods to provide accurate solutions to complex problems in the information era. Hybrid algorithms are also important; they merge skills from different approaches and make decisions based on different rules to explore the possible solutions accurately.

This Special Issue aims to present the latest advances in soft computing and machine learning algorithms that employ or solve problems where entropy is included.







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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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