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Ordinal Pattern-Based Entropies: New Ideas and Challenges

Guest Editor:

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Message from the Guest Editor

This Special Issue's aim is twofold. Firstly, it seeks to address theoretical investigations to enrich our understanding of the applicability of ordinal pattern-based entropies. Secondly, it aims to explore new and promising areas as well as novel concepts.

We invite original, unpublished papers and comprehensive reviews exploring the following research areas:

- Advancements and development of innovative concepts in ordinal pattern-based entropies and methodologies.
- Theoretical investigations to enhance the interpretability and applicability of permutation entropy.
- Investigation of linear and nonlinear preprocessing of multiscale permutation entropy on processes involving forbidden patterns.
- Investigation of the potential of permutation entropy as features in machine learning algorithms, particularly in the context of large and complex datasets.
- Mathematical modelling and engineering problem-solving using the ordinal pattern-based entropies.
- Analysis of nonlinear dynamical systems and nonlinear phenomena from the perspective of ordinal patterns.
- Practical applications of permutation entropy in real-world problems.

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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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