Special Issue

Symbolic Entropy Analysis and Its Applications II

Message from the Guest Editor

Symbolic data analysis has received a great deal of attention over the last few years and has been applied to many research areas, including astrophysics and geophysics, biology and medicine, fluid flow, chemistry, mechanical systems, artificial intelligence, communication systems, and, recently, data mining and big data. A fundamental step in this methodology is the quantization of original data into a corresponding sequence of symbols. The resulting time series is then considered a transformed version of the original data, allowing to highlight its temporal information. Indeed, it has been proven that this symbolization procedure can notably improve signal-to-noise ratios in some noisy time series. Moreover, symbolic data analysis also makes communication and numerical computation more efficient and effective, compared with the processing of continuous-valued time series.

Guest Editor

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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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