



entropy



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Entropy in the Application of Biomedical Signals

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Deadline for manuscript
submissions:

closed (25 July 2022)

Message from the Guest Editor

Dear Colleagues,

For many years, entropy methods have been used as powerful tools for analyzing signals or time series resulting from complex dynamics in biomedical systems. The potential of these methods for characterizing complex dynamics has led researchers to investigate many variants of entropy definitions and estimations, each being designed for its qualities suitable for application purpose and being adapted to many application constraints.

In this Special Issue, we would like to collect papers focusing on finite-length time series entropy, theoretically or experimentally characterized, with applications to nonstationary or short-length biomedical data series. Any kind of entropy measure will be considered: approximate entropy, sample entropy, permutation entropy, fuzzy entropy, distribution entropy, dispersion entropy, etc. Any additional measure or extension combined with the entropy concept will be considered: multiscale measures, cross-entropy measures, multivariate approaches, multidimensional data approaches, and mixing with other complexity measures that describe deterministic underlying mechanisms of biomedical systems.



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Special Issue



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Editor-in-Chief

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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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