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Entropy Algorithms for the Analysis of Biomedical Signals

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

The use of entropy algorithms for the analysis of biomedical signals has provided new insights into physiology and disease not available previously when using linear signal processing methods. The focus of this Special Issue is the dissemination of original novel research into the application of entropy algorithms to the analysis of biomedical signals. Potential topics include, but are not limited to, the following:

- New applications of existing entropy algorithms to different biomedical signals;
- Introduction of novel entropy algorithms for the analysis of biomedical signals;
- Characterisation of the properties (e.g., robustness to noise or outliers, impact of input parameters on the entropy values, etc.) of new entropy algorithms using synthetic data;
- Analysis of biomedical signals with multiscale entropy algorithms at different temporal scales;
- Early diagnosis of different disorders with entropy algorithms;
- Feature extraction from biomedical signals with entropy algorithms and classification with machine learning for diagnosis.

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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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