Special Issue

Entropy in Biomedical Engineering

Message from the Guest Editor

The use of nonlinear methods in biomedical engineering has gained increasing popularity, with the entropy-based ones being of major importance. The various definitions of entropy have been extensively used in biomedical engineering, where in some topics, the vast majority of papers employ entropy analysis. Biomedical engineering, with complex and multidimensional problems, has always inspired researchers working on entropy, whilst significant entropy definitions have been initiated from the biomedical engineering field. The inherent ability of entropy to extract sensitive information from complex systems was catalytic in this wide acceptance. This Special Issue focuses on contributions of the use of entropy in biomedical engineering, including but not limited to biomedical applications; analysis of biomedical data using entropy; contribution on entropy definitions inspired by biomedical engineering topics; entropy definitions evaluated with biomedical data; computing algorithms; and entropy as features in machine learning methods applied on biomedical data.

Guest Editor

Dr. George Manis

Department of Computer Science and Engineering, University of Ioannina, 45110 Ioannina, Greece

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Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

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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.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

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