

## Special Issue

# Entropy Algorithms for the Analysis of Biomedical Signals

### 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.

---

### Guest Editor

Dr. Daniel Abasolo

Centre for Biomedical Engineering, Department of Mechanical Engineering Sciences, Faculty of Engineering and Physical Sciences, University of Surrey, Guildford GU2 7XH, UK

---

### Deadline for manuscript submissions

closed (30 September 2022)



## Entropy

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.0  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/si/106946](https://mdpi.com/si/106946)

*Entropy*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[entropy@mdpi.com](mailto:entropy@mdpi.com)

[mdpi.com/journal/  
entropy](https://mdpi.com/journal/entropy)





# Entropy

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.0  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/journal/  
entropy](https://mdpi.com/journal/entropy)



## About the Journal

### 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

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, PubMed, PMC, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Multidisciplinary) / CiteScore - Q1 (Mathematical Physics)