

Special Issue

Quantum and Classical Processes in Living Systems

Message from the Guest Editors

This Special Issue is the follow-up to a previous publication entitled “Quantum Processes in Living Systems”. The title of this new Special Issue makes it apparent that the scope has been widened to include, along with fully quantum processes, classical mechanisms and the unfolding of events on the edge between the quantum and the classical realm. The underlying idea is that, perhaps, Life requires the intertwinement of all three of these dynamics in order to define and sustain itself. Our goal for this Special Issue is to mark a milestone in our current understanding of the phenomena involved in the unfolding of Life. Novel studies spanning topics from cellular or sub-cellular phenomena to the workings of the brain are welcome. We will also consider contributions that review, or give different interpretations of, living processes. Experimental and theoretical papers are equally welcome.

Guest Editors

Dr. Alessandro Sergi

Dipartimento di Scienze Matematiche e Informatiche, Scienze Fisiche e Scienze della Terra, Università degli Studi di Messina Contrada Papardo, 98166 Messina, Italy

Prof. Antonino Messina

Department of Mathematics and Computer Science, University of Palermo, 90133 Palermo, PA, Italy

Deadline for manuscript submissions

15 November 2025



Entropy

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/209642

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

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





Entropy

an Open Access Journal
by MDPI

Impact Factor 2.1
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)