

Peer Review

Review of: "Integrating Biological Principles into Observational Entropy"

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Review report on the article:

"Integrating Biological Principles into Observational Entropy"

by Richard Summers.

In this paper, the author presents an epistemological dissertation about the so-called observational entropy, corresponding to the observer's lack of knowledge about a system. If the observer is to hold a central place in our modern understanding of entropy, then it is important to incorporate the biological principles for the processing of information as knowledge acquisition into the determination of these measures.

Being a mathematician, I was in difficulty reviewing this paper.

Even though the article does not contain any mathematical results, except for formulae on page 7 regarding the Kullback-Leibler information divergence (which is not indeed explained there) and that is better discussed in the paper

"Entropic Dynamics in a Theoretical Framework for Biosystems"

Entropy 2023, 25(3), 528; <https://doi.org/10.3390/e25030528>,

by the same author, nevertheless this paper could have a philosophical valence.

Effectively, the article appears to be a summary of a dissertation, already published elsewhere. However, I cannot judge, since the epistemology of Physics is not my field of expertise.

Attachments: available at <https://doi.org/10.32388/JCJMC5>

Declarations

Potential competing interests: No potential competing interests to declare.