Review of: "A Law for Irreversible Thermodynamics? Synergy Increases Free Energy by Decreasing Entropy"

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Potential competing interests: No potential competing interests to declare.

The article provides an interesting vision on "*thermodynamic properties of phenomena that are intuitively recognized as synergetic in a wide range of disciplines, searching for common features*." The topic is of great relevance for the community of scientists working on foundations of complex systems, and perhaps even more relevant for the community of applied complexity researchers.

A similar endeavor was offered by Gerhenson (2012) in his eight tentative laws of information that served as intellectual input for their application in the realm of commerce-consumer research by myself (Correa, 2020). Arguably, the metrics of emergence, self-organization, and complexity can be helpful in providing the necessary formalism for a interdisciplinary treatment of synergetic properties of complex phenomena in both open and close systems.

Suggested References

Correa, J.C. (2020) Metrics of emergence, self-organization, and complexity for EWOM research. Frontiers in Physics, 8:35. doi: 10.3389/fphy.2020.00035

Gershenson C. The world as evolving information. In: Minai A, Braha D, Bar-Yam Y, editors. Unifying Themes in Complex Systems. Vol. VII. Heidelberg: Springer (2012). p. 100–15.