

Topical Collection

Quantum Information

Message from the Collection Editor

Dear Colleague, We invite submissions for the section on quantum information, calling attention to two remarkable aspects of this subfield: (i) While driven by practical concerns, it uncovers new foundational questions and principles, and (ii) it provides a conceptual framework that unifies and changes the way we think about other subfields, including those of particular interest to *Entropy*. Such other subfields include pure thermodynamics and statistical mechanics, as well as applications ranging from quantum biology, through correlated many-body systems, to gravity and the black hole information paradox. Keywords: entanglement entropy, eigenstate thermalization, quantum phase transitions, topological order, black hole information paradox, the holographic principle, quantum coherent transport, quantum coherence in biological phenomena. Prof. Dr. Jay Lawrence *Section Editor-in-Chief*

Collection Editor

Dr. Peter Harremoës
Copenhagen Business College, Rønne Alle 1, st., 2860 Søborg,
Denmark



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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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