



entropy



an Open Access Journal by MDPI

Quantum Computation and Information: Multi-Particle Aspects

Guest Editors:

Prof. Dr. Demosthenes Ellinas

Prof. Dr. Giorgio Kaniadakis

Prof. Dr. Jiannis Pachos

Dr. Antonio M. Scarfone

Deadline for manuscript
submissions:

closed (30 June 2015)

Message from the Guest Editors

Dear Colleagues,

This Special Issue mainly focuses on state-of-the-art advancements concerning multi-particles. These advancements are emerging in various research directions within the field of Quantum Computation and Information. In particular, the Issue will target works on research topics that blend multi-particle physical and mathematical modelling with techniques and concepts from quantum statistical mechanics. Within this framework, the problems addressed specifically concern various kinds of quantum computational and informational multi-particle algorithms and related matters, such as performance and design, as well as quantum walks, topological quantum computing, and multi-particle entanglement.

Prof. Dr. Demosthenes Ellinas

Prof. Dr. Giorgio Kaniadakis

Prof. Dr. Jiannis Pachos

Prof. Dr. Antonio Maria Scarfone

Guest Editors



mdpi.com/si/4121

Special Issue



entropy



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University
at Albany, 1400 Washington
Avenue, Albany, NY 12222, USA

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.

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*)

Contact Us

Entropy Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/entropy
entropy@mdpi.com
[X@Entropy_MDPI](#)