Special Issue

Methods and Applications of Quantum Data Processing

Message from the Guest Editors

This Special Issue aims to provide a forum for researchers from different research areas interested in applying principles of quantum mechanics in their area of specialisation. Contributions devoted to quantum programming languages, the simulation of quantum systems, quantum-enhanced machine learning, and quantum information processing in complex systems are welcome. We encourage in-depth analyses of the use cases in the respective areas, including applications to real-world data and the modelling of industrial, financial, and sociological systems. Manuscripts devoted to demonstrating the strengths and limitations of data processing based on quantum principles of quantum mechanics are also welcome. We also encourage submissions analysing the efficiency of quantum programmes developed for current hardware platforms which take into account input data modification, imprecise implementation of the quantum procedures, or various models used on current quantum computers.

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Deadline for manuscript submissions

closed (30 June 2022)

Entropy

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.2
Indexed in PubMed

mdpi.com/si/59853

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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.

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