

Special Issue

Entropy in Classical and Quantum Information Theory with Applications

Message from the Guest Editors

The concept of entropy is at the core of both classical and quantum information theory, allowing us to quantify uncertainty in data via various related measures. That is, entropy not only governs the way in which we perceive information but also how information is communicated and processed. As such, it plays a key role in addressing problems that span diverse fields, from physics and chemistry to finance and medicine, constituting a foundation for multiple scientific and technological developments. Of particular importance in this regard is the incorporation of entropy measures into the emerging technologies of artificial intelligence and quantum computing. This Special Issue invites original contributions to the above intriguing and evolving field. In particular, its scope covers all fundamental aspects of various entropy measures at the classical and quantum levels, along with the corresponding applications.

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About the Journal

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.

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