Special Issue

Quantum Information and Quantum Computation

Message from the Guest Editors

Quantum information and computation theory have undergone remarkable development over the past several decades. They have not only deepened our understanding of quantum mechanics but also found numerous applications in the real world. From a foundational perspective, the introduction of concepts such as entanglement, steering, nonlocality, and quantum discord, alongside the discovery of novel phenomena, has significantly advanced our comprehension of quantum correlations. These insights have had profound implications for various domains, including quantum computation, quantum metrology, quantum communication, quantum cryptography, condensed matter physics, and quantum field theory. This Special Issue serves as a platform for showcasing new and improved techniques in quantum information and computation theory, fostering the continued growth and innovation in this vibrant field.

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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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