

Special Issue

Quantum Information— Dedicated to Professor Gilles Brassard on the Occasion of His 70th Birthday

Message from the Guest Editors

Professor Gilles Brassard's visionary work has fundamentally established the cornerstone of modern quantum information science. His seminal contributions—including the co-invention of quantum cryptography (notably the BB84 protocol), quantum teleportation, entanglement distillation, and the development of information theoretical security frameworks—have successfully transformed abstract quantum principles into practical and powerful technologies. This Special Issue, dedicated in honour of Professor Brassard's 70th birthday, aims to assemble a collection of invitation-only, high-quality articles that reflect the remarkable breadth, depth, and enduring influence of his scientific legacy. Topics of interest encompass, but are not limited to:

- Quantum cryptography and key establishment
- Device-independent quantum information processing
- Quantum communication and networks
- Quantum entanglement and nonlocality
- Quantum algorithms and computational foundations
- Quantum teleportation and remote state preparation
- Quantum randomness generation and certification
- Intersections of quantum information and cryptography
- Quantum foundations
- Quantum networks and the future of secure communications

Guest Editors

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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.

Editor-in-Chief

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