Special Issue

Quantum Communication and Quantum Key Distribution

Message from the Guest Editor

Quantum communication and quantum key distribution have been developed in recent decades. Researchers from multiple disciplines, such as mathematics, physics, computer science, electronics, etc., have worked together to bring up fruitful achievements. Nowadays, theoretical and experimental efforts are focused in many directions, such as extending the maximum transmission distance of key distribution, increasing the final secret key rate in terms of both phonic layer and post-processing layer, designing efficient schemes for security improvement of quantum communications, developing protocols for practical implementations of quantum networks, etc. The purpose of this Special Issue is to gather a collection of articles reflecting the latest developments of theories and applications to quantum communications and quantum key distributions. We invite researchers to submit their theoretical or experimental contributions on topics including, but not limited to: quantum key distribution, quantum random number generation, quantum teleportation, quantum cryptography, quantum hacking and countermeasure, quantum error correction, and quantum networking.

Guest Editor

Prof. Dr. Ying Guo

School of Computer, Beijing University of Posts and Telecommunications, Beijing 100876, China

Deadline for manuscript submissions

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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.
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Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

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