



entropy



an Open Access Journal by MDPI

Advanced Technology in Quantum Cryptography

Guest Editors:

Prof. Dr. Qin Wang

Dr. Hong-Wei Li

Dr. Jin Dong Wang

Dr. Xing-Yu Zhou

Deadline for manuscript
submissions:

closed (15 January 2024)

Message from the Guest Editors

As the world increasingly goes digital, information security is becoming particularly important. Quantum cryptography offers means of securely establishing encryption keys against quantum computing with the guarantee of quantum mechanics and Shannon's information theory. There exists strong incentive to introduce quantum cryptography into many areas of human society, ranging from field optical network to satellite communications. To extend its applicability and reliability, it is important to develop operable technologies that meet the requirements of secure and low noise coding for quantum state preparation, of efficient and robust controlling technique for key rate extraction, and of scalable and low-cost production for wide deployments. So the purpose of this Special Issue is to explore and present various advanced technology that can be integrated into Quantum cryptosystems, such as laser modulation, stabilizing approach, post-processing algorithm, machine learning, and optical networking, etc.



mdpi.com/si/141402

Special Issue



entropy



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University
at Albany, 1400 Washington
Avenue, Albany, NY 12222, USA

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Inspec](#), [PubMed](#), [PMC](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Physics, Multidisciplinary*) / CiteScore - Q1 (Mathematical Physics)

Contact Us

Entropy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/entropy
entropy@mdpi.com
[X@Entropy_MDPI](https://twitter.com/Entropy_MDPI)