



*entropy*



an Open Access Journal by MDPI

## Quantum Probability, Statistics and Control

Guest Editor:

**Prof. Holger F. Hofmann**

Graduate School of Advanced  
Sciences of Matter, Hiroshima  
University, Higashi Hiroshima  
739-8530, Japan

Deadline for manuscript  
submissions:

**closed (31 May 2020)**

### Message from the Guest Editor

Quantum physics is about to move into a new stage as the technical possibilities of controlling quantum systems are giving us access to more and more details of the statistical features described by quantum interferences and the associated Hilbert space algebra. These developments provide us with a unique opportunity to vastly enhance our understanding of quantum physics by exploring the fundamental relations between quantum states and quantum measurements. The aim of this Special Issue is to invite scientists to share both theoretical and experimental results on the statistics of quantum systems at the ultimate limits of control. In particular, any work relating to quantum measurement, uncertainty relations, entanglement and other non-classical correlations, and quantum tomography and related tests of states and processes will be highly welcome. More generally, any scientific contributions related to fundamental or practical aspects of quantum systems will be considered.



[mdpi.com/si/32506](https://mdpi.com/si/32506)

**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](http://www.mdpi.com)

[mdpi.com/journal/entropy](http://mdpi.com/journal/entropy)  
[entropy@mdpi.com](mailto:entropy@mdpi.com)  
[X@Entropy\\_MDPI](https://twitter.com/Entropy_MDPI)