



*entropy*



an Open Access Journal by MDPI

## Information Theory for Distributed Systems

Guest Editor:

### Dr. Songze Li

1. Thrust of Internet of Things,  
The Hong Kong University of  
Science and Technology  
(Guangzhou), Guangzhou, China  
2. Department of Computer  
Science and Engineering, The  
Hong Kong University of Science  
and Technology, Clear Water Bay,  
Kowloon, Hong Kong, China

songzeli@ust.hk

Deadline for manuscript  
submissions:

**closed (20 January 2023)**

### Message from the Guest Editor

The aim of this Special Issue is to attract research investigations, from an information-theoretic perspective, on the fundamental limits of critical metrics in distributed systems such as computation/communication efficiency, privacy and security, accuracy, and scalability, as well as the development of information and coding theoretic tools to achieve optimal performance. Prospective authors are invited to submit original research contributions on topics including, but not limited to:

- Coding for distributed storage systems;
- Coded caching networks;
- Coded distributed computation;
- Distributed and federated learning systems;
- Distributed private information and function retrieval;
- Distributed ledgers/blockchains;
- Secure multi-party computation and verifiable computation.



[mdpi.com/si/134654](https://mdpi.com/si/134654)

**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 \(Web of Science\)](#), [MathSciNet](#), [Inspec](#), [PubMed](#), [PMC](#), [Astrophysics Data System](#), and [other databases](#).

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

## Contact Us

---

*Entropy*  
MDPI, St. Alban-Anlage 66  
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)  
[@Entropy\\_MDPI](https://twitter.com/Entropy_MDPI)