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## Information Theory for Distributed Systems

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (25 July 2024)**

### 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.



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**Special** Issue



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## Editor-in-Chief

### Prof. Dr. Kevin H. Knuth

Department of Physics, University  
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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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