

Special Issue

Information Theory and Differential Privacy

Message from the Guest Editors

This Special Issue invites original research articles that study the integration of differential privacy, including its variants and generalizations within the framework of information theory. We particularly welcome contributions that present novel theoretical insights, rigorous privacy–utility analyses, and innovative applications that bridge the gap between privacy guarantees and information-theoretic principles.

- information-theoretic differential privacy
- differentially private distributed computing
- differential privacy in fairness
- differential privacy in network coding
- differentially private learning algorithms
- differential privacy in Lagrange coded computing
- differential privacy in network information theory
- differential privacy in reinforcement learning and federated learning

Guest Editors

Dr. Amirreza Zamani

Division of Information Science and Engineering, KTH Royal Institute of Technology, 100-44 Stockholm, Sweden

Dr. Mina Sheikhalishahi

Department of Computer Science, Open University, 6401 DL Heerlen, The Netherlands

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Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

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About the Journal

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.

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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