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Information Theory in Machine Learning and Data Science

Guest Editor:

Prof. Dr. Maxim Raginsky
Department of Electrical and Computer Engineering, University of Illinois, 162 Coordinated Science Lab MC 228, 1308 W. Main St., Urbana, IL 61801, USA

Deadline for manuscript submissions:
closed (15 May 2018)

Message from the Guest Editor

Dear Colleagues,

The purpose of this Special Issue is to highlight the state-of-the-art in applications of information theory to the fields of machine learning and data science. Possible topics include, but are not limited to, the following:

- Fundamental information-theoretic limits of machine learning algorithms
- Information-directed sampling and optimization
- Statistical estimation, optimization, and learning under information constraints
- Information bottleneck methods
- Information-theoretic approaches to adaptive data analysis
- Information-theoretic approaches to feature design and selection
- Estimation of information-theoretic functionals

Prof. Dr. Maxim Raginsky

Guest Editor

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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.

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Contact Us

Entropy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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