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Entropy Based Inference and Optimization in Machine Learning

Guest Editors:

Prof. Stephen Roberts
Department of Engineering Science & Oxford-Man Institute of Quantitative Finance, University of Oxford, Oxford, England, UK

Dr. Stefan Zohren
Department of Engineering Science & Oxford-Man Institute of Quantitative Finance, University of Oxford, Oxford, England, UK

Deadline for manuscript submissions:
closed (20 December 2019)

Message from the Guest Editors

Dear Colleagues,

Many modern machine learning algorithms are deeply rooted in the principles of statistical and information physics. A prominent example is the method of Maximum Entropy and its relations to Bayesian inference and optimization. Entropy-based methods have found many applications in modern machine learning, ranging from natural language processing to the development of approximate algorithms for large-scale data analysis. This special issue aims to focus on recent advances in entropy-based methods for inference and optimization problems in machine learning. We welcome submissions making novel contributions to the subject, both foundational as well as applied.

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Dr. Stefan Zohren
Guest Editors

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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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entropy@mdpi.com
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