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Probabilistic Methods for Deep Learning

Guest Editors:

Dr. Eric Nalisnick
Amsterdam Machine Learning Lab, Informatics Institute, University of Amsterdam, Amsterdam, The Netherlands

Dr. Dustin Tran
Google Brain, Mountain View, CA, USA

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Message from the Guest Editors

In this Special Issue, we aim to highlight work at the intersection of deep learning, probabilistic modeling, and statistical inference. In particular, we welcome work on Bayesian neural networks, deep latent variable models, deep ensembles, networks with statistical guarantees (e.g., via conformal inference), and probabilistic understanding of neural networks (e.g., via infinite limits).

- deep learning
- neural networks
- probabilistic modeling
- Bayesian statistics
- statistical inference
- uncertainty quantification
- robustness

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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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