Special Issue

Machine Learning and Causal Inference

Message from the Guest Editor

This Special Issue focuses on theoretical and methodological research that is relevant to any intersection of causality and machine learning. The Special Issue encourages submissions of original papers on topics including but not limited to: causal discovery, causal inference, counterfactual inference, graphical models, fair AI, explainable AI (XAI), transfer learning, causal representation learning, machine learning for decision-making, recommender system, computer vision, and natural languag processing.

The Special Issue of interest includes, but are not limited to:

- causal structure discovery
- causal effect estimation
- causal representation learning
- causal generative models
- implications of the principle of independent causal mechanisms (ICM) for machine learning
- fairness, accountability, transparency, explainability and trustworthiness in artificial intelligence
- algorithmic recourse
- transfer learning and domain adaptation
- foundational theories of causal inference
- applications of causal inference to real-world problems

Guest Editor

Dr. Lu Zhang
Department of Computer Science and Computer Engineering, University of Arkansas, Fayetteville, NC, USA

Deadline for manuscript submissions

closed (30 January 2024)

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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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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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