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MaxEnt 2022—the 41st International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering

Guest Editors:

Prof. Dr. Ali Mohammad-Djafari

Prof. Dr. Frank Nielsen

Dr. Frédéric Barbaresco

Dr. Martino Trassinelli

Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editors

This Special Issue invites contributions that use Bayesian inference and maximum entropy methods in data analysis, information processing and inverse problems from a broad range of diverse disciplines, including the following: astronomy and astrophysics, geophysics, medical imaging, molecular imaging and genomics, non-destructive evaluation, particle and quantum physics, physical and chemical measurement techniques, and economics and econometrics.

The specific areas of interest include, but are not limited to, the following:

- Foundations of probability, inference, information, and entropy;
- Bayesian physics-informed and thermodynamics-informed machine learning;
- Machine learning tools for inverse problems;
- Bayesian and maximum entropy in real-world applications;
- Geometric statistical mechanics/physics, Lie group thermodynamics and maximum entropy densities;
- Quantum: theory, computation, tomography and applications.

We welcome the submission of extended papers on contributions presented at the MaxEnt 2022. Papers on the subject of maximum entropy and Bayesian methods are also welcome.

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Special Issue

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Editor-in-Chief

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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.

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