Special Issue

Bridging Bayesian and Information-Theoretic Approaches in Earth and Environmental System Modeling: Theory and Practical Applications

Message from the Guest Editors

We invite contributions that link information and Bayesian theory using theoretical examples or cross-cutting applications. Topics may include, but are not limited to:

- Bayesian probability theory
- Bayesian uncertainty assessment
- Bayesian optimal design
- information theory
- Shannon entropy
- algorithmic information theory
- causal inference
- model evaluation

Guest Editors

Dr. Anneli Guthke

Dr. Jasper A. Vrugt

Dr. Steven V. Weijs

Deadline for manuscript submissions

31 August 2025

Entropy

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About the Journal

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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