# Special Issue

# SUURI of Information Geometry: Dedicated to SUURI Engineer Professor Shun'ichi Amari on the Occasion of His 90th Birthday

## Message from the Guest Editors

Information Geometry is a powerful formalism that applies concepts from differential geometry to the study of probability distributions and the understanding of curved statistical models. The framework of □-geometry helps us understand different statistical problems like Bayesian inference and optimization methods. It does this by introducing the ideas of □-divergence and dual connections, which are now important tools in statistical physics, machine learning, and optimization. In honor of SUURI engineer Professor Shun'ichi Amari's 90th birthday, it is a pleasure to present this Special Issue, which aims to gather original research papers and high-quality reviews in Information Geometry and related fields. Works focusing on the successes and future challenges that Information Geometry aims to obtain through its mathematical formalism, theoretical foundations, and applications, especially in machine learning and information theory, are welcome. Contributions that seek to synthesize the potential applications of Information Geometry to statistical physics, as well as present novel results and prospects for its applications, are also encouraged.

## Guest Editors


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## Deadline for manuscript submissions

closed (30 April 2026)


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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

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