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# MaxEnt 2019—The 39th International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering

Guest Editors:

## **Dr. Udo Von Toussaint**

Max-Planck-Institute for Plasma Physics, Boltzmannstrasse 2, 85748 Garching, Germany

#### **Dr. Roland Preuss**

Max-Planck-Institute for Plasma Physics, Boltzmannstrasse 2, 85748 Garching, Germany

Deadline for manuscript submissions:

closed (30 September 2019)

## **Message from the Guest Editors**

Dear Colleagues,

The main topics of this Special Issue are the application of Bayesian inference and the maximum entropy principle to inverse problems in science, machine learning, information theory, and engineering.

Inverse and uncertainty quantification (UQ) problems arise from a large variety of applications, such as earth science, astrophysics, material and plasma science, imaging in geophysics and medicine, nondestructive testing, density estimation, remote sensing, Gaussian process (GP) regression, optimal experimental design, data assimilation, and data mining.

This Special Issue thus invites contributions on all aspects of probabilistic inference, including novel techniques and applications, and work that sheds new light on the foundations of inference

Dr. Udo Von Toussaint Dr. Roland Preuss Guest Editors













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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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