Special Issue

Probabilistic Methods for Inverse Problems II

Message from the Guest Editor

Inverse problems arise in many applications. Whatever the domain of application, when the unknown quantities on which we want to infer, the quantities on which we can do measurements, and the mathematical relations linking them have been identified, the problem then becomes inference. To this end, deterministic regularization methods have been successfully developed and used. Two main difficulties still remain: how to choose the different criteria and how to weight them and quantify their uncertainties. In the three last decades, the probabilistic methods and, in particular, the Bayesian approach have shown their efficiency. The focus of this Special Issue is to present original papers on such probabilistic methods where the real advantages on regularization methods have been demonstrated. Papers with real applications in different areas such as biological and medical imaging, industrial nondestructive testing, radio astronomical, and geophysical imaging are preferred.

Guest Editor

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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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