Robust Distance Metric Learning in the Framework of Statistical Information Theory

Guest Editors:

Prof. Dr. Leandro Pardo
Department of Statistics and O.R., Complutense University of Madrid, 28040 Madrid, Spain

Prof. Dr. Pedro Miranda
Faculty of Mathematical Sciences, Department of Statistics and Operations Research, Complutense University of Madrid, 28040 Madrid, Spain

Deadline for manuscript submissions:
closed (30 November 2023)

Message from the Guest Editors

The scope of the contributions to this Special Issue is to present new and original research papers based on different families of entropy and divergence measures for solving, from a theoretical or applied point of view, different problems considered in machine learning (ML), paying special attention to robustness. Problems to be considered include (but are not limited to):

- Dimensional reduction: Informational Correlation Analysis (ICA), Canonical Correlation Analysis, Principal Components, ICA procedures for solving blind source separation, and so on.
- Clustering.
- Classification.
- Density-Ratio Estimation.
- Non-negative Matrix Factorization.
- Singular value decomposition: robust SVD, Active Learning, and so on.

Papers treating the case of high-dimensional data in ML problems in the framework of divergence measures are also welcome.

Finally, reviews making emphasis on the most recent state-of-the-art in relation to the solution of ML problems based on divergence measures are also accepted.

Special Issue

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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