Information-Theoretic Methods in Data Analytics

Guest Editor:

Dr. Kichun Lee
Department of Industrial Engineering, Hanyang University, Seoul 04763, Republic of Korea

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Message from the Guest Editor

This Special Issue aims to collect works on novel information-driven methods and their applications, hopefully with emphasis on statistical frameworks and flows, in numerous domains, such as medicine, finance, business, biology, marketing, education, etc. Works that include topics such as information, entropy, statistical inference, data compression, feature selection and extraction, discovery of clusters and/or communities in association with prediction, outlier detection, association rule mining, recommendation systems, reinforcement learning, pattern recognition, deep neural networks, and other statistical and analytical topics based on data are of particular interest.

The Special Issue of interest include, but are not limited to:

- information
- probability
- divergence
- statistical inference
- data compression
- data visualization
- community detection
- outlier detection
- feature selection
- data mining
- machine learning
- pattern recognition
- neural networks
- applications of data analysis

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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