Special Issue

Information-Theoretic Guided Methods for Information Network Mining and Its Applications

Message from the Guest Editors

This Special Issue is a forum for researchers from a variety of fields working on information-theoretic guided mining and learning methods for information networks to share and discuss their latest findings. Submissions focused on topics such as (but not restricted to):

- Information theory-based network/graph representation learning methods for homogeneous or heterogeneous information networks;
- Information-theoretic measures and enhancement for multi-modal, multi-relational, and dynamic graph analysis;
- Entropy-theoretic-guided graph transformers and graph convolutional neural networks;
- Entropy-based data mining for knowledge graphs, linguistics graphs, bibliographic graphs, textual graphs, social networks, traffic networks, and molecules;
- Parallel computing for information theory-based information network analysis;
- The visual searching and browsing of information theory-based information networks;
- Applications of information theory-based information network mining in e-commerce, text mining, stock prediction, recommendation systems, self-driving cars, bioinformatics and medical informatics, and so on;
- Information theory-based information networks for explainable AI.

Guest Editors

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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.

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