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Information Network Mining and Applications

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Deadline for manuscript submissions:
closed (30 September 2023)

Message from the Guest Editors

This Special Issue welcomes original algorithmic, methodological, theoretical, statistical, or systems-based contributions to information network research and, in particular, applications broadly related to knowledge graphs, social networks, stock prediction, online shopping, recommendation systems, self-driving car, bioinformatics and medical informatics. Research papers and comprehensive reviews may focus on (but are not restricted to) the following research areas:

- Network/graph representation learning for homogeneous or heterogeneous information networks;
- Network/graph modelling like multi-modal, multi-relational, and dynamic graphs;
- Graph transformer and graph convolutional neural network;
- Data mining based on knowledge graphs, linguistics graphs, bibliographic graphs, textual graphs, social networks, traffic networks, and molecules;
- Parallel computing for information network analysis;
- Visual searching and browsing of information networks;
- Applications of information network mining in e-commerce, text mining, stock prediction, recommendation systems, self-driving car, bioinformatics and medical informatics, and so on;
- Information networks for explainable AI.

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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.

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