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Entropy-Centric Intelligent Computation with Graph: In Pursuit of Advanced Computational Theories, Methods, and Applications

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Message from the Guest Editors

This Special Issue will be a forum for researchers working on mining and learning from entropy-centric intelligent computation with graphs in pursuit of advanced computational theories, methods, and applications. Submitted research papers and comprehensive reviews should focused on the following research areas:

- Entropy-centric intelligent computation theories with graphs;
- Entropy-centric graph structured-based data modeling with time-evolving, multi-relational, and multi-modal nature;
- Neural graph representation learning for homogeneous or heterogeneous graphs in the guidance of the entropy principle;
- Entropy-centric data mining for knowledge graphs, linguistics graphs, bibliographic graphs, textual graphs, social networks, traffic networks, and molecules;
- New entropy-centric computing framework/method for graph structure-based data;
- Applications of entropy-centric graph mining in e-commerce, text mining, stock prediction, recommendation systems, self-driving cars, protein modeling, program analysis, etc.

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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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