Special Issue

Graph Partitioning Algorithm

Message from the Guest Editor

Recently, with the development of machine learning and artificial intelligence, many learning-based graph partitioning algorithms have been proposed and have achieved encouraging performance on several benchmarks. Currently, besides conventional combinatorial optimization problems, the study of graph partitioning algorithms is highly correlated with unsupervised and semi-supervised learning tasks, i.e., node representation and clustering, and reinforcement learning techniques. Therefore, introducing new graph partitioning algorithms, especially those learning-based methods, and promoting their innovative applications are at the heart of this Special Issue. We invite you to submit high-quality papers to the Special Issue on "Graph Partitioning Algorithm", with subjects covering the whole range from theory to applications. The topics we are interested in include but are not limited to:

- Scalable and/or approximate combinatorial optimization for graph partitioning;
- Learning-based graph partitioning;
- Applications of graph partitioning on bioinformatics, chemistry, and social networks;
- Theoretical analysis of graph partitioning methods.

Guest Editor

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

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