Algorithms for Network Analysis: Theory and Practice

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Message from the Guest Editors

This special issue of the MDPI journal "Algorithms" invites original research papers that explore the intersection of Algorithms and (Social) Network Analysis, both in theory and practice. We welcome contributions that propose new algorithms, methods, and models for (Social) Network Analysis, as well as empirical studies that apply these techniques to real-world social networks and, more in general, to real-world applications that can be modeled through complex networks.

- development and application of new algorithms for network analysis
- theoretical aspects of network analysis algorithms
- machine learning and data mining techniques for network analysis
- community detection and clustering in networks
- influence and diffusion processes in networks
- analysis of network dynamics
- visualization of networks
- privacy and security issues in (social) network analysis
- real-world examples of the application of network analysis in various fields (e.g., sociology, economics, biology, medicine, transport, etc.)

Special Issue

Editor-in-Chief

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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.

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