Artificial Intelligence in Network Science

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Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editors

Dear Colleagues,

Recent interests in network data with multilayer and heterogeneous structures pose a significant challenge to traditional graph-theoretic and statistical approaches that have played important roles in network science. These multiplex and heterogeneous networks naturally arise in many research fields and industrial practices such as computational biology, social media, and knowledge graphs.

This Special Issue is dedicated to showcasing recent progress in applying AI techniques to the analysis and modeling of complex networks. All papers are welcome that describe work on using AI techniques in a substantial way to solve algorithmic problems in network analysis (such as those related to centrality measures, meso-scale structures, network embedding, role analysis, and network diffusion), to model network phenomena and evolution, or to understand the dynamic processes taking place on networks.

Dr. Yong Gao
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Guest Editors

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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