



## Advances in Complex Network Models and Random Graphs

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Deadline for manuscript  
submissions:

**closed (15 August 2021)**

### Message from the Guest Editors

We invite you to submit your latest research in the area of complex networks and related algorithms to this Special Issue, “Advances in Complex Network Models and Random Graphs”. We are looking for new and innovative complex network models and theories to analyse the real-world networked systems; as well efficient algorithms to solve and optimize the problems encountered with respect to these networked systems. High-quality papers are solicited to address both theoretical and practical issues of complex networks. Potential topics include, but are not limited to, physical and functional properties of complex networks, mathematical properties of complex network models and random graphs, nonlinear dynamical systems and collective behaviours in complex systems, network controllability and robustness enhancement and optimization, epidemiological study using complex networks, etc.

- Applications of Graph Theory
- Community detection
- Complex Networks
- Controllability
- Consensus
- Epidemiology
- Malicious attacks
- Network dynamics
- Optimization
- Random Graphs
- Robustness
- Searching in networks





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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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