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Algorithms for Community Detection in Complex Networks

Guest Editor:

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Deadline for manuscript submissions:
closed (31 May 2017)

Message from the Guest Editor

Dear Colleagues,

Complex networks, such as social networks or web graphs, are characterized by a heterogeneous topology. Often, this leads to a low diameter, a high clustering coefficient, and a heavy-tailed degree distribution. Such networks also often feature (a hierarchy of) communities or clusters, i.e., vertex subsets that have many internal connections and relatively few external ones. Computing meaningful communities is a non-trivial task, often phrased as an optimization problem. High-quality solutions are sought for many applications in various fields; devising suitable algorithms has thus been an active research area for quite some time now.

This Special Issue shall reflect recent algorithmic advancements in the field, in particular for scenarios beyond disjoint communities in static undirected one-layer networks. We invite original high-quality research on all algorithmic aspects (both theoretical and applied) of community detection in complex networks.

Prof. Dr. Henning Meyerhenke
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.

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