Special Issue

Computational Methods and Graph Theory

Message from the Guest Editor

Network data are ubiquitous and constantly accumulating. Furthermore, efficient computational analysis of large graphs is paramount, as is determining how algorithms may be tailored to specific network topologies. In this Special Issue, we focus on the efficient analysis of network data, with a particular interest in understanding how topological information can be leveraged using methods and algorithms for the analysis, querying, compression, characterization, and comparison of network data. Of particular interest are methods which can run efficiently either on general graphs or on networks possessing specific topological properties. Particular preference will be given to papers which provide novel proof of the efficiency, existence, or non-existence of efficient algorithms for graphs with specific topologies.

Guest Editor

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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