
Call for Papers

Discrete Applied Mathematics

Special Issue: *Applications of Graph Spectra in Computer Science*

The spectra of matrices associated with a graph are widely used to characterize its properties and to extract structural information. There are several graph matrix representations such as the adjacency matrix, combinatorial Laplacian, normalized Laplacian, and signless Laplacian. Apart from a natural link to discrete mathematics, spectral graph theory also has many applications in other scientific fields such as chemistry, theoretical physics, and quantum mechanics.

In computer science, spectral graph theory provides fundamental techniques to a series of important algorithmic problems such as the design of interconnection networks, graph partitioning and load balancing, as well as information retrieval and data mining. This special issue aims to publish a collection of original works on graph spectra applications in computer science, with a special focus on the connection between traditional spectral graph theory on one side and theoretical computer science or network analysis on the other side.

The deadline for submission is **November 15, 2012**.

Instructions for authors can be found at:

<http://ees.elsevier.com/dam/>

Authors should submit a cover letter and a manuscript by November 15, 2012, via this online submission site. Manuscripts submitted after November 15, 2012, may not be considered for the special issue.

Please see Author Instructions on the site if you have not yet submitted a paper through this web-based system. Be sure to note that your work is intended for the special issue and to select the article type **SI: Applications of Graph Spectra in Com.**

Papers will be subject to a strict review process managed by the Guest Editors and accepted papers will be published online individually as they are accepted, before print publication.

Guest Editors:

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