

数学与系统科学研究院

计算数学所学术报告

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报告题目:

**On Adaptively Accelerated Arnoldi
Method for Computing PageRank**

邀请人: 白中治研究员

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报告地点: **科技综合楼三层 311**

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Abstract:

Pagerank is the kernel technique of Google search engine which results in computing the eigenvector of the dominant eigenvalue. A generalized refined Arnoldi method based on the weighted inner product is presented for computing PageRank. In order to speed up the convergence performance for computing PageRank, we propose to change the weights adaptively where the weights are calculated based on the current residual corresponding to the approximate PageRank vector. Numerical results show that the proposed Arnoldi method converges faster than existing methods, in particular when the damping factor is large.

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