



一类修正的幂外推法加速PageRank 计算

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A Class of Modified Power-Extrapolation Methods for Speeding up PageRank Computation

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摘要 PageRank 是网络信息检索和搜索引擎中的一种重要的排序算法. 设计了2种改进的方法加速计算PageRank, 即一种基于超链接的网页重要性评估, 并详细介绍了改进算法的过程及算法的执行. 数值实验结果说明了改进算法的有效性.

关键词: PageRank Google矩阵 阻尼因子 幂法 幂外推法

Abstract: PageRank is an important ranking algorithm in the web information retrieval and search engines. This paper presents two modified methods for speeding up the computation of PageRank, which is a hyperlinkbased estimate of the webpage importance. The improved algorithm is described in detail and implemented. Numerical tests show effectiveness of the modified algorithms.

Keywords: PageRank, Google matrix, damping factor, power method, power-extrapolation method

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