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论文

运输问题的Alphabeta算法的分析

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摘要:

运输问题的Alphabeta算法的分析刘诚, 杨承恩 (长沙铁道学院) AN ANALYSIS OF THE ALPHABETA ALGORITHM FOR THE TRANSPORTATION PROBLEM Y Liu Cheng; Yang Cheng-en (Research D...

关键词:

AN ANALYSIS OF THE ALPHABETA ALGORITHM FOR THE TRANSPORTATION PROBLEM

Liu Cheng; Yang Cheng-en(Research Department, Changsha Railway Institute)

Abstract:

Abstract In this paper, we divide the iterations of the Alphabeta algorithm into two classes: flow-increasing and nonflow-increasing iterations, and then divide the flow-increasing iterations into saturated flow-increasing and nonsaturated flow-increasing iterations. We prove that, between any two adjacent flow-increasing iterations, the Alphabeta algorithm requires at most min {m-1, n-1} non-flow-increasing iterations (where m and n denote the numbers of the sources and sinks respectively). Furthermore, we also prove that, between any two adjacent saturated flow-increasing iterations, the Alphabeta algorithm under some conditions requires at most (m-1)·(n-1) nonsaturated flow-increasing iterations. Therefore, we can prove that, under these conditions, the bound of the number of iterations of the Alphabeta algorithm is strongly polynomial.

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