

计算机科学

时变路网下VRP准时路径的选择

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摘要:

基于节约里程法求解多回路运输问题(VRP), 得到了在时变路网下要求准时性高的路径选择问题. 考虑时变路网中顺畅和拥堵概率, 路径最短不一定用时最少, 通过实例对距离、时间、费用等因素进行分析、拟合, 对比了不同因素下路径选择和时限内的准时稳定性等情况. 结果表明, 优化后的配送路径可以保证配送的稳定性.

关键词: 多回路运输问题(VRP); 时变路网; 节约算法; 路径选择; 物流

VPR Routing Selection Based on Time Varying Network

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Abstract:

Solving the problem of VRP by saving algorithm the author obtained the routing selection with punctuality in the time varying road network. Considering the smooth and congestion of traffic in the time\| varying road network, the shortest path does not spend the least time. The factors of distance, time limit, cost and reliability were analyzed and fitted combined with the cases of routing selection and the punctuality under the conditions of different factors compared. The results show that optimized distribution path can ensure the stability of distribution.

Keywords: vehicle roiting problem(VRP); time varying network; saving algorithm; route choice; logistics

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