

论文

EQUILIBRIUM ALGORITHMS WITH NONMONOTONE LINE SEARCH TECHNIQUE FOR SOLVING THE TRAFFIC ASSIGNMENT PROBLEMS

ZHAO Hui, GAO Ziyou

School of Traffic and Transportation, Beijing Jiaotong University, Beijing 100044, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 This paper presents a unified framework of the nonmonotone convex combination

algorithms (such as Frank-Wolfe Algorithm) for solving the traffic assignment

problems. Global convergence results are established under mild conditions. The line

search procedure used in our algorithm includes the nonmonotone Armijo rule, the

nonmonotone Goldstein rule and the nonmonotone Wolfe rule as special cases. So, the

new algorithm can be viewed as a generalization of the regular convex combination

algorithm.

关键词 [Traffic, convex combination algorithm, n](#)

分类号

EQUILIBRIUM ALGORITHMS WITH NONMONOTONE LINE SEARCH TECHNIQUE FOR SOLVING THE TRAFFIC ASSIGNMENT PROBLEMS

ZHAO Hui, GAO Ziyou

School of Traffic and Transportation, Beijing Jiaotong University, Beijing 100044, China

Abstract This paper presents a unified framework of the nonmonotone convex combination algorithms (such as Frank-Wolfe Algorithm) for solving the traffic assignment problems. Global convergence results are established under mild conditions. The line search procedure used in our algorithm includes the nonmonotone Armijo rule, the nonmonotone Goldstein rule and the nonmonotone Wolfe rule as special cases. So, the new algorithm can be viewed as a generalization of the regular convex combination algorithm.

Key words [Traffic](#) [convex combination algorithm](#) [nonmonotone line search](#) [global convergence](#)

DOI:

通讯作者

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(0KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含 “Traffic, convex combination algorithm, n”的 相关文章](#)
- ▶ [本文作者相关文章](#)
- [ZHAO Hui](#)
- [GAO Ziyou](#)