论文

A MODIFIED HOMOGENEOUS AND SELF-DUAL LINEAR PROGRAMMING ALGORITHM

GUO Tiande(1), WU Shiquan(2)

(1)Mathematics Department, Qufu Normal University, Qufu 273165, China; (2)Institute of Applied Mathematics, Academia Sinia, Beijing 100080, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 In this paper,we modify the corrector step of the homogeneous and self-dual linear programming algorithm, proposed by Ye, Todd and Mizuno[1]. The duality gap is reduced by a constant fraction per iteration. It is shown that our modified algorithm retains the O(\sqrt{n}L) iteration complexity and the duality gap converges to zero.

关键词 <u>Linear programming, interior point algor</u> 分类号

A MODIFIED HOMOGENEOUS AND SELF-DUAL LINEAR PROGRAMMING ALGORITHM

GUO Tiande(1), WU Shiquan(2)

(1)Mathematics Department, Qufu Normal University, Qufu 273165, China; (2)Institute of Applied Mathematics, Academia Sinia, Beijing 100080, China

Abstract In this paper,we modify the corrector step of the homogeneous and self-dual linear programming algorithm, proposed by Ye, Todd and Mizuno[1]. The duality gap is reduced by a constant fraction per iteration. It is shown that our modified algorithm retains the $O(\sqrt{rt}nL)$ iteration complexity and the duality gap converges to zero.

Key words Linear programming interior point algorithms homogeneity self-dual

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

▶ <u>本刊中 包含 "Linear programming,</u> interior point algor"的 相关文章

▶本文作者相关文章

- GUO Tiande
- · WU Shiquan