

论文

A HYBRID POLYNOMIAL ALGORITHM FOR LINEAR PROGRAMMING

HUANG Saing(1), Kortanek, K. O. (2)

(1)Department of Information and Systems Management, College of Business and Manapement, Hong Kong University of Science and Technology, Clear Water Bag, Kowloon, Hong Kong; (2)Department of Management Science, Collage of Business, the University of Iowa, Iowa City, Iowa 52242, USA

收稿日期 修回日期 网络版发布日期 接受日期

摘要 We propose a "long step" double scaling algorithm. Its local performance has been compared with those of potential-reduction algorithms. On the basis of this analysis, we introduce a polynomial algorithm which combines scaling-steps and potential-reduction steps. The algorithm terminates in $O(\sqrt{n}L)$ iterations.

关键词 [Linear programming, scaling algorithm, po](#)

分类号

A HYBRID POLYNOMIAL ALGORITHM FOR LINEAR PROGRAMMING

HUANG Saing(1), Kortanek, K. O.(2)

(1)Department of Information and Systems Management, College of Business and Manapement, Hong Kong University of Science and Technology, Clear Water Bag, Kowloon, Hong Kong; (2)Department of Management Science, Collage of Business, the University of Iowa, Iowa City, Iowa 52242, USA

Abstract We propose a "long step" double scaling algorithm. Its local performance has been compared with those of potential-reduction algorithms. On the basis of this analysis, we introduce a polynomial algorithm which combines scaling-steps and potential-reduction steps. The algorithm terminates in $O(\sqrt{n}L)$ iterations.

Key words [Linear programming](#) [scaling algorithm](#) [potential reduction algorithm](#) [polynomial algorithm](#)

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 "[Linear programming, scaling algorithm, po](#)"的 [相关文章](#)
- ▶ 本文作者相关文章

- [HUANG Saing](#)
- [Kortanek](#)
- [K O](#)