

论文

A NEW ALGORITHM FOR PURE 0-1 LINEAR PROGRAMS WITH INEQUALITY CONSTRAINTS

CHEN Jianfei(1), XIA Shaowei(2)

(1)Biochemical Engineering State Key Laboratory, Beijing 100080, China; (2)Department of Automation, Tsinghua University, Beijing 100084, China

收稿日期 修回日期 网络版发布日期 接受日期

摘要 More and more attention has been paid to the HNN algorithm since it used by Hopfield and [1] to solve TSPs in 1985. However, the algorithm can only solve the pure 0-1 linear programs with equality constraints, and many test cases [2] showed that it is unreliable. This paper proposes an HNN-type algorithm which can solve some pure 0-1 linear Programs with inequality constraints and guarantee to find their "near-optimal" solutions. Finally, an example is given.

关键词 [Neural network, pure 0-1 linear program.](#)

分类号

A NEW ALGORITHM FOR PURE 0-1 LINEAR PROGRAMS WITH INEQUALITY CONSTRAINTS

CHEN Jianfei(1), XIA Shaowei(2)

(1)Biochemical Engineering State Key Laboratory, Beijing 100080, China; (2)Department of Automation, Tsinghua University, Beijing 100084, China

Abstract More and more attention has been paid to the HNN algorithm since it used by Hopfield and [1] to solve TSPs in 1985. However, the algorithm can only solve the pure 0-1 linear programs with equality constraints, and many test cases [2] showed that it is unreliable. This paper proposes an HNN-type algorithm which can solve some pure 0-1 linear Programs with inequality constraints and guarantee to find their "near-optimal" solutions. Finally, an example is given.

Key words [Neural network](#) [pure 0-1 linear program](#) [near-optimal solution](#) [simplex 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“Neural network, pure 0-1 linear program,”的相关文章](#)
- ▶ [本文作者相关文章](#)
- [CHEN Jianfei](#)
- [XIA Shaowei](#)