

# A RESTRICTED TRUST REGION METHOD WITH SUPERMEMORY FOR UNCONSTRAINED OPTIMIZATION

收稿日期 1994-1-14 修回日期 网络版发布日期 接受日期

摘要

关键词

分类号

# A RESTRICTED TRUST REGION METHOD WITH SUPERMEMORY FOR UNCONSTRAINED OPTIMIZATION

L.P. Sun

Department of Mathematics, Nanjing University, Jiangsu, China

**Abstract** A new method for unconstrained optimization problems is presented. It belongs to the class of trust region method, in which the descent direction is sought by using the trust region steps within the restricted subspace. Because this subspace can be specified to include information about previous steps, the method is also related to a supermemory descent method without performing multiple dimensional searches. Trust region methods have attractive global convergence property. Supermemory information has good scale independence property. Since the method possesses the characteristics of both the trust region methods and the supermemory descent methods, it is endowed with rapidly convergence. Numerical tests illustrate this point.

**Key words**

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 无 相关文章](#)
- ▶ [本文作者相关文章](#)