

工程与应用

区间型多属性决策的夹角度量法

万树平

江西财经大学 信息管理学院, 南昌 330013

收稿日期 2008-10-30 修回日期 2008-12-3 网络版发布日期 2009-9-15 接受日期

摘要 针对决策矩阵元素为区间数的不确定多属性决策问题, 给出了一种新的决策方法。通过定义区间型正、负理想点以及各方案与理想点的夹角, 再利用夹角定义各方案与区间理想点的相对贴近度, 从而给出了各方案的排序结果。该方法无需对区间数进行排序和比较, 计算简单, 易于计算机上实现, 应用实例表明了方法的有效性和实用性。

关键词 [多属性决策](#) [区间数](#) [区间理想点](#) [夹角度量](#) [相对贴近度](#)

分类号 [C934](#)

Method of inclination measurement for interval multi-attribute decision-making

WAN Shu-ping

College of Information Technology, Jiangxi University of Finance and Economic, Nanchang 330013, China

Abstract

A new method is proposed for interval multi-attribute decision-making, in which the attribute values are in the form of interval numbers. The concepts of interval ideal point and inclination of each alternative on the interval ideal point are defined. The method uses the inclination to define the relative closeness between decision alternative and ideal point. The priority is given by the relative closeness. This method can avoid comparing and ranking interval numbers. It is straightforward and can be performed on computer easily. Finally, an illustrative example is given to demonstrate the feasibility and practicability of the proposed method.

Key words [multi-attribute decision-making](#) [interval number](#) [interval ideal point](#) [inclination measurement](#) [relative closeness](#)

DOI: 10.3778/j.issn.1002-8331.2009.26.061

通讯作者 万树平 shupingwan@163.com

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(296KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [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“多属性决策”的 相关文章](#)
- ▶ [本文作者相关文章](#)
- [万树平](#)