

## 面向偏好冲突的直觉模糊多属性群体决策方法

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## Intuitionistic fuzzy multi-attribute group decision-making method for preference conflicting

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摘要

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## 摘要

针对偏好具有冲突性且权重信息完全未知的直觉模糊多属性群体决策问题, 提出一种基于多目标决策的求解方法. 首先, 建立以决策方案差异程度和决策成员偏好冲突程度为目标函数的多目标决策模型; 然后, 利用极小极大方法求解该模型, 得到各方案的属性权重和决策成员权重, 据此确立最优方案; 最后, 通过数值算例表明了该方法的有效性.

**关键词:** 偏好冲突, 直觉模糊数, 多目标决策

## Abstract:

For intuitionistic fuzzy multi-attribute decision-making problems where the preference is conflictive and the weight information is unknown, a decision making method is proposed based on multi-objective decision making. Firstly, the multi-objective decision model of decision differences degree and preference conflict degree being chosen as the goal functions is proposed. Then, the attribute weights and decision makers weights are obtained by using the minimax method for solving the model, and the optimal scheme is established. Finally, an example shows the effectiveness of the proposed method.

**Key words:** preference conflict intuitionistic fuzzy number multi-object decision making

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