

基于退出-委托动态冲突消解机制的应急大群体决策方法

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Emergency large group decision method based on exit-commission dynamic conflict eliminating mechanism

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摘要

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摘要

针对应急决策时间紧迫的特点, 提出一种基于退出-委托动态冲突消解机制的应急大群体决策方法. 首先, 对决策群体进行偏好聚类, 对群体冲突进行测度并判断冲突程度的高低, 在冲突程度过高的情况下进行消解; 然后, 在决策过程中建立退出机制, 使与群体偏好冲突较大的聚集退出决策过程, 利用委托机制使退出决策过程的聚集对后续决策过程仍有影响并通过反馈机制对冲突进行消解. 算例分析验证了所提出方法的合理性和可行性.

关键词: 退出-委托, 冲突消解, 大群体, 决策方法

Abstract:

Aiming at the timely characteristic of emergency decision, a method of emergency decision for the large group based on the exit-commission dynamic conflict eliminating mechanism is proposed. Firstly, the decision group is clustered by preference, the group conflict degree is measured, and the conflict degree is judged. The conflict eliminating method is used when the degree is high. Then, an exit mechanism is proposed to make the cluster whose preference is high conflictive with group preference exit the decision-making process. The commission mechanism is used to make the cluster who exits the decision-making process influence the subsequent decision. The feedback mechanism is used to decrease the conflict degree. Finally, a numerical example is given to illustrate the rationality and feasibility of the proposed method.

Key words: exit-commission conflict eliminating large group decision making method

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