

系统工程

具有Choquet积分形式的模糊合作对策

孟凡永, 张强

孟凡永, 张强

摘要:

结合模糊数的限制运算, 探讨了一类具有模糊支付的模糊合作对策——Choquet积分形式的模糊合作对策, 研究了其单调性和连续性。具有模糊支付的模糊合作对策是凸模糊合作对策时, 研究了Choquet积分形式的模糊合作对策的模糊核心和模糊Shapley值, 并探讨了两者之间的关系, 有趣的是这种关系与经典情形相一致。需要指出的是, 所给有关模糊合作对策的定义都是对经典情形的推广。最后通过一个算例来说明其应用。

关键词: 模糊数 模糊合作对策 Choquet积分 Shapley值

Fuzzy cooperative games with Choquet integral form

MENG Fan yong, ZHANG Qiang

(北京理工大学管理与经济学院, 北京 100081)

Abstract:

A class of fuzzy cooperative games with fuzzy payoffs fuzzy cooperative games with Choquet integral form is proposed, which combines the fuzzy numbers limited operations. Its monotonicity and continuity are studied. This paper discusses this kind of fuzzy cooperative games' fuzzy core and fuzzy Shapley value when the fuzzy cooperative games with fuzzy payoffs are fuzzy convex. At the same time, this paper studies the relation between fuzzy core and fuzzy Shapley value of the fuzzy cooperative games with Choquet integral form, which is coincide with the classical case. It need to be pointed that all the definitions about fuzzy cooperative games are the extension for the classical case. Finally, a numerical example is given to illustrate its application.

Keywords: fuzzy numbers fuzzy cooperative games Choquet integral Shapley values

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通讯作者:

作者简介:

作者Email:

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