

基于成员特征及历史信息的合作意愿度迭代模型

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An Iterated Model on the Degree of Willingness to Cooperate Based on Member Characteristic and History Information

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摘要 本文从博弈论有关概念和心理学角度出发提出合作意愿度概念,并结合对群体成员特征和历史信息的考虑,构建了反映群体动态演化的合作意愿度模型;该模型克服了已有模型忽视历史信息、群体成员特征和自身的愿望以及对合作—竞争—冲突过程缺乏统一解释的局限性,揭示了群体成员达到稳定博弈均衡前调整、互动的过程;为了进一步体现模型的应用价值,我们对涉及环境和偶然(突发)事件的合作意愿度模型进行了仿真研究,并对仿真结果做了详细的分析。

关键词: 合作意愿度 成员特征 历史信息 合作意愿度迭代模型

Abstract: In this paper, we above all present the concept of the degree of willingness to cooperate (DWC) based on relative game-theoretic concept from viewpoint of psychology. On the base of the consideration of member characteristic and history information, we build up DWC model on dynamic evolution of group, which surmounts the localization of the neglect of history information, group member characteristic, and their desire and of the absence of initiative interpretation about cooperation-competition-conflict. By that we open out the process of strategy adjustment and interaction of group member before attain equilibrium. In order to show its value in application, we engage in simulation study on DWC model involved with circumstance and contingency and give a detail analysis about simulation result.

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