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图限制下合作对策的 t 值

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The τ -value of Cooperative Games Restricted by Graph

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摘要 本文给出图限制下合作对策 t 值的结构, 这个单值解可看作是由Tijs提出的经典合作对策 t 值的推广. 当合作图为完全图时, 准均衡图对策的 t 值与经典合作对策下的准均衡对策的 t 值一致. t 值是基于核心的上界和对应于上界的超量得到对策的一个妥协解. 利用分支有效性, S -均衡下的相对不变性和限制成比例性讨论了 t 值的公理化方法. 最后一部分讨论两类特殊图对策的 t 值.

关键词: 图对策 τ 值 准均衡 分支有效

Abstract: We first study the τ -value for graph-restricted games and provide its explicit construction. The one-point solution could be considered as a natural extension of the τ -value introduced by Tijs for classical cooperative games. When the cooperation graph is complete, the τ -value for graph-restricted games coincides with the τ -value for classical cooperative games. Then we provide an axiomatization of the τ -value for graph-restricted games via component efficiency, relative invariance under S -equivalence and restricted proportionality. The last section introduces the τ -value for two special classes of graph-restricted games.

Keywords: graph-restricted games, τ -value, quasibalanced, component efficiency

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