Original Articles

多重剖分竞赛图中弧的外路径

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摘要   多重剖分竞赛图弧xy的k外路径是一个具有长度k的有向路径,从xy起点使得x不能支配有向路径的端点. 有向路径的概念是有向圈的推广.文中证明了如果T是几乎正则n剖分(n≥8)竞赛图,其每个剖分集至少有两个顶点, 那么T的每个弧对于所有k(3≤k≤n-1)有k外路径.

关键词   外路径   多重剖分竞赛图
分类号

Outpaths of arcs in multipartite tournaments

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Abstract A k-outpath of an arc xy in a multipartite tournament is a directed path with length k starting from xy such that x does not dominate the end vertex of the directed path.This concept is a generalization of a directed cycle.We show that if T is an almost regular n-partite (n≥8) tournament with each partite set having at least two vertices,then every arc of T has a k-outpath for all k,3≤k≤n-1.

Key words   Oupaths   multipartite tournaments

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