

论文

SOME PROPERTIES ON PATHS IN MATROID BASE GRAPHS

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摘要 Let G be the base graph with n vertices of any matroid. It is proved that for any two vertices of G there are at least r internally disjoint shortest paths joining them where r is their distance. Furthermore, for any integer k , $r \leq k \leq n-1$, there is a path of length k or $k+1$ in G joining them. If M is a simple matroid and $P=bb_1 \dots b_{(r-1)}b'$ is a shortest path in the base graph G of M , then for any integer k , $r \leq k \leq n-1$, there is a path of length k between b and b' containing $b_1, \dots, b_{(r-1)}$. Therefore the results in [5] are generalized.

关键词

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Abstract Let G be the base graph with n vertices of any matroid. It is proved that for any two vertices of G there are at least r internally disjoint shortest paths joining them where r is their distance. Furthermore, for any integer k , $r \leq k \leq n-1$, there is a path of length k or $k+1$ in G joining them. If M is a simple matroid and $P=bb_1 \dots b_{(r-1)}b'$ is a shortest path in the base graph G of M , then for any integer k , $r \leq k \leq n-1$, there is a path of length k between b and b' containing $b_1, \dots, b_{(r-1)}$. Therefore the results in [5] are generalized.

Key words

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