

國立中山大學應用數學系

學術演講

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講題：Rainbow k -connection in dense graphs

時間：2014/03/19 (星期三) 16:10 ~ 17:00

地點：理學院四樓理 SC 4011-2 室

摘要

An edge-colored path is rainbow if the colors of its edges are distinct. For a positive integer k , an edge-coloring of a graph G is rainbow k -connected if any two vertices of G are connected by k internally vertex-disjoint rainbow paths. The rainbow k -connection number $rc_k(G)$ is defined to be the minimum integer t such that there exists an edge-coloring of G with t colors which is rainbow k -connected. We consider $rc_2(G)$ when G has fixed vertex-connectivity. We also consider $rc_k(G)$ for large complete bipartite and multipartite graphs G with equipartitions. Finally, we determine sharp threshold functions for the properties $rc_k(G)=2$ and $rc_k(G)=3$, where G is a random graph. Related open problems are posed. This is joint work with Henry Liu and Colton Magnant.

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