

Re-Visiting Rainbow Connection in Graphs

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A rainbow coloring of a connected graph G is an edge coloring of G , where adjacent edges may be colored the same, with the property that for every two vertices u and v of G , there exists a $u - v$ rainbow path (no two edges of the path are colored the same). The minimum number of colors in a rainbow coloring of G is the rainbow connection number of G . This topic has been studied by many. We revisit this concept from a different point of view. Recent results and problems in this area of research are presented. This is joint work with Z. Bi, G. Chartrand, and P. Zhang.