

On the Dichromatic Number of Digraphs and Graphs

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The dichromatic number $dc(D)$ of a digraph D is the smallest number of colours needed to colour the vertices of D so that no monochromatic directed cycle is created. This concept generalizes that of the chromatic number of a graph. The dichromatic number of a graph G is the maximum of the dichromatic numbers of all orientations of G .

In this talk we will present some new results concerning these invariants.