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Inverse domination in circular arc graphs

Purushotham P[1], **Rama Latha V[2],** Manjunath G[3]
1. Department of Mathematics, S J C institute of technology, Chikkaballapura, Karnataka, India
2. Department of Mathematics, Presidency University, Yelahanka, Bengaluru, Karnataka, 560064, India
3. Department of Mathematics, RGIT, Bangalore, Karnataka, India

Abstract

The intersection graph of a set of arcs on the circle is called a circular-arc graph. Circular-arc has one vertex for each arc in the set and an edge between every pair of vertices corresponding to arcs that intersect. Let 1 2 { , ,....., } C c c c = n be family of arcs on a circle. In this paper we are taking circular arcs such that if we remove 1 c then there will be a disconnection between left end side intersecting arc of 1 c and right end side intersecting arcs of 1 c .We are writing an algorithm to find an inverse of dominating set with respect to a minimum dominating set of a circular-arc family

Keywords:
Inverse dominating set, Inverse domination number, Circulare-arc graph.

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