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Weighted maximum-clique transversal sets of graphs. (English) Zbl 1237.05153
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Summary: A maximum-clique transversal set of a graph G is a subset of vertices intersecting all maximum cliques of G . The maximum-clique transversal set problem is to find a maximum-clique transversal set of G of minimum cardinality. Motivated by the placement of transmitters for cellular telephones, *M.-S. Chang, T. Kloks* and *C.-M. Lee* [Lect. Notes Comput. Sci. 2204, 32–43 (2001; [Zbl 1042.68619](#))] introduced the concept of maximum-clique transversal sets on graphs. In this paper, we study the weighted version of the maximum-clique transversal set problem for split graphs, balanced graphs, strongly chordal graph, Helly circular-arc graphs, comparability graphs, distance-hereditary graphs, and graphs of bounded treewidth.

MSC:

05C69 Vertex subsets with special properties (dominating sets, independent sets, cliques, etc.) Cited in 1 Document
68R10 Graph theory (including graph drawing) in computer science

Keywords:

[split graphs](#); [balanced graphs](#); [strongly chordal graph](#); [Helly circular-arc graphs](#); [comparability graphs](#); [distance-hereditary graphs](#); [graphs of bounded treewidth](#)

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