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A note on intersection dimensions of graph classes

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Abstract: The intersection dimension of a graph G with respect to a class \mathcal{A} of graphs is the minimum k such that G is the intersection of some k graphs on the vertex set $V(G)$ belonging to \mathcal{A} . In this paper we follow [Kratochvíl J., Tuza Z.: Intersection dimensions of graph classes, Graphs and Combinatorics 10 (1994), 159–168] and show that for some pairs of graph classes \mathcal{A}, \mathcal{B} the intersection dimension of graphs from \mathcal{B} with respect to \mathcal{A} is unbounded.

Keywords: intersection graph, intersection dimension

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