

# The competition-acquisition number of a graph

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Competitive optimization parameters in graphs are those associated with the formation of a set  $S$  of elements of a graph  $G$ , where the set  $S$  is formed by two players alternately selecting elements of  $S$ . The players are trying to maximize, respectively, minimize, the order of  $S$ . Cases included are those where  $S$  must be independent, enclaveless, a packing, or an acquisition set.

**Key words:** acquisition, optimization, graphical game theory