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## ISOLATION OF GRAPHS

Given a set  $\mathcal{F}$  of graphs, we call a copy of a graph in  $\mathcal{F}$  an  $\mathcal{F}$ -graph. The  $\mathcal{F}$ -isolation number of a graph  $G$ , denoted by  $\iota(G, \mathcal{F})$ , is the size of a smallest subset  $D$  of the vertex set of  $G$  such that the closed neighbourhood  $N[D]$  of  $D$  intersects the vertex sets of the  $\mathcal{F}$ -graphs contained by  $G$  (equivalently,  $G - N[D]$  contains no  $\mathcal{F}$ -graph). If  $\mathcal{F}$  consists of a 1-clique, then  $\iota(G, \mathcal{F})$  is the *domination number* of  $G$ . If  $\mathcal{F}$  consists of a 2-clique, then  $\iota(G, \mathcal{F})$  is the *vertex-edge domination number* of  $G$ . The study of the general  $\mathcal{F}$ -isolation problem was introduced by Caro and Hansberg [6, 7]. This study is expanding very rapidly. A brief account of its development and of the speaker's recent work and collaborations in this field will be provided [1, 2, 3, 4, 5]. The speaker's collaboration with members of University of Gdańsk was funded by a SEA-EU grant awarded by the University of Malta.

## References

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