

Zbl 616.05042

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Extremal clique coverings of complementary graphs. (In English)

Combinatorica 6, 309-314 (1986). [0209-9683]

The clique covering number, $cc(G)$, is the least number of complete subgraphs needed to cover the edges of G ; the clique partition number, $cp(G)$, is the least number of complete subgraphs needed to partition the edge set of G . Let \bar{G} be the complement of G . The paper investigates bounds on $\max\{cc(G) + cc(\bar{G})\}$, $\max\{cc(G)cc(\bar{G})\}$, $\max\{cp(G) + cp(\bar{G})\}$ and $\max\{cp(G)cp(\bar{G})\}$, taken over graphs G with n vertices.

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Classification:

05C35 Extremal problems (graph theory)

05C70 Factorization, etc.

Keywords:

extremal problem; complementary graphs; clique covering number; clique partition number