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Connected obstructions to full graph homomorphisms. (English) Zbl 1300.05181


Summary: Minimal obstructions to full homomorphisms to a graph $B$ have been proved to be of size at most $|B| + 1$. This turns out to require that disconnected obstructions be allowed. In this paper we prove that the size of minimal connected obstructions is at most $|B| + 2$. We also prove that achieving $|B| + 2$ is rare and present a complete list of the exceptional cases. Finally, we compute the dualities associated with these exceptions.

MSC:

05C60 Isomorphism problems in graph theory (reconstruction conjecture, etc.)

and homomorphisms (subgraph embedding, etc.)

Keywords:

minimal connected obstructions

Full Text: DOI

References:


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