

Relating the minor-minimal obstructions for Vertex Cover and Feedback Vertex Set

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One of the immediate consequences of the Graph Minors Theorem by Robertson and Seymour, previously known as Wagner's conjecture, is that a family of graphs closed under taking minors can be completely characterised by excluding a finite set of forbidden minor-minimal graphs, also called obstructions. However, in order to constructively test if a given graph is a member of such a family, it is necessary to have full knowledge of these forbidden minors. We discuss some relations between the respective obstructions for Vertex Cover and Feedback Vertex Set.