

Winter, Pawel; Syslo, Maciej M.

Maximal outerplanar graphs with perfect face-independent vertex covers. (English)

Zbl 0808.05042

Discrete Appl. Math. 54, No. 2-3, 267-280 (1994).

Let $G = (V, E)$ be a 2-connected planar graph, embedded in the plane. A subset $W \subseteq V$ is called perfect face-independent vertex cover (FIVC) of G if every face of G has exactly one vertex in W . The main result characterizes those maximal outerplanar graphs which admit plane embeddings with perfect FIVCs.

Reviewer: [S.Mihalas](#) (Columbus / Ohio)

MSC:

05C10 Planar graphs; geometric and topological aspects of graph theory

05C05 Trees

68R10 Graph theory (including graph drawing) in computer science

Cited in 1 Document

Keywords:

planar graph; plane; perfect face-independent vertex cover; face; outerplanar graphs; plane embeddings

Full Text: [DOI](#)

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