

Gutner, Shai

The complexity of planar graph choosability. (English) Zbl 0865.05066
Discrete Math. 159, No. 1-3, 119-130 (1996).

Margit Voigt gave examples of a planar graph which is not 4-choosable and a planar triangle-free graph which is not 3-choosable. The present author presents simpler examples. He also proves that the corresponding decision problems for planar graphs are NP-hard.

Reviewer: [C.Thomassen \(Lyngby\)](#)

MSC:

[05C85](#) Graph algorithms (graph-theoretic aspects)
[05C15](#) Coloring of graphs and hypergraphs
[68R10](#) Graph theory (including graph drawing) in computer science

Cited in **3** Reviews
Cited in **28** Documents

Keywords:

[choosability](#); [planar graph](#); [decision problems](#); [NP-hard](#)

Full Text: [DOI](#)

References:

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