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Four-searchable biconnected outerplanar graphs. (English) [Zbl 1477.05176]

Summary: This paper deals with constructing obstruction sets for two subclasses of 4-searchable graphs. We first characterize the 4-searchable biconnected outerplanar graphs by listing all graphs that cannot be their minors; we then give a constructive characterization of such graphs. We also characterize the 4-searchable biconnected generalized wheel graphs by listing all graphs that cannot be their minors.

MSC:
05C83  Graph minors
05C10  Planar graphs; geometric and topological aspects of graph theory
68R10  Graph theory (including graph drawing) in computer science

Keywords:
graph minors; edge searching; outerplanar graphs; forbidden minors

Full Text: DOI

References:

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