Forbidden Minors for 4-Searchable Generalized Wheel Graphs

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(joint work with Boting Yang)

Edge search number is a graph invariant that is inherited by minors. The finite set of forbidden minors are known only for k-searchable graphs where $k \leq 3$ and for some subclasses of planar graphs when $k = 4$. In this talk we give the set of forbidden minors for 4-searchable generalized wheel graphs which is a subclass of 2-outerplanar graphs. We further talk about the construction of these minors and discuss the generalizability of it.