

Rivera-Campo, Eduardo

A note on the existence of plane spanning trees of geometric graphs. (English) [Zbl 0956.05030](#)
Akiyama, Jin (ed.) et al., Discrete and computational geometry. Japanese conference, JCDCG '98. Tokyo, Japan, December 9-12, 1998. Proceedings. Berlin: Springer. Lect. Notes Comput. Sci. 1763, 274-277 (2000).

Let P be a set of points in the plane. Every edge of a geometric graph $G = (P, E)$ with point set P is a straight line with endpoints in P . A plane spanning tree of G is a subtree of G that includes every vertex and has no edges whose lines cross in the plane. It is shown that every geometric graph G with at least 5 vertices has a plane spanning tree, when every induced subgraph of G with at least 5 vertices has a plane spanning tree.

For the entire collection see [\[Zbl 0933.00046\]](#).

Reviewer: [Hans L. Bodlaender \(Utrecht\)](#)

MSC:

[05C05](#) Trees

Cited in **3** Documents

Keywords:

[planar graphs](#); [geometric graph](#); [plane spanning tree](#)