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Complexity of the network median problem on planar grids. (English. Russian original)

[Zbl 0848.05057](#)

[Sib. Adv. Math.](#) 5, No. 2, 1-9 (1995); translation from [Tr. Inst. Mat. SO RAN](#) 27, 6-13, (1994).

Summary: The n -grid is defined to be the adjacency graph of the $n \times n$ integer lattice. A graph is called a planar grid if it is isomorphic to a subgraph of the n -grid. The paper shows that the network median problem (an analog of the well-known k -median problem) remains NP-hard when restricted to the class of n -grids.

MSC:

[05C85](#) Graph algorithms (graph-theoretic aspects)

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

Cited in **1** Document

Keywords:

n -grid; planar grid; network median problem