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A polynomial time algorithm for finding the absolute center of a network. (English)

Zbl 0738.90045

Networks 11, No. 4, 351-355 (1981).

Summary: The absolute center of a network is any vertex or point on an edge such that the distance from it to the vertex farthest from it is as small as possible. We present a polynomial time algorithm for finding an absolute center. This algorithm is combinatorial in nature and requires only knowledge of the shortest path distances between all pairs of vertices.

MSC:

90B80 Discrete location and assignment

90C35 Programming involving graphs or networks

90C60 Abstract computational complexity for mathematical programming problems

Cited in 8 Documents

Keywords:

absolute center of a network; polynomial time algorithm

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References:

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