

Hachicha, Mondher; Hodgson, M. John; Laporte, Gilbert; Semet, Frédéric
Heuristics for the multi-vehicle covering tour problem. (English) Zbl 0973.90019
[Comput. Oper. Res.](#) 27, No. 1, 29-42 (2000).

Summary: The multi-vehicle covering tour problem is defined on a graph $G = (V \cup W, E)$, where W is a set of vertices that must collectively be covered by up to m vehicles. The problem consists of determining a set of total minimum length vehicle routes on a subset of V , subject to side constraints, such that every vertex of W is within a prespecified distance from a route. Three heuristics are developed for this problem and tested on randomly generated and real data.

MSC:

[90B20](#) Traffic problems in operations research

Cited in **27** Documents**Keywords:**

covering tour; vehicle routing; savings algorithm; sweep algorithm; route-first/cluster-second

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