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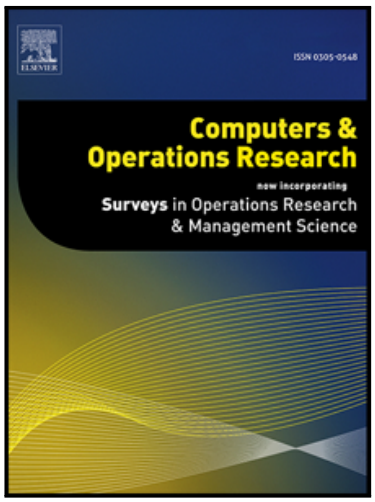


# Solving the multi-vehicle multi-covering tour problem

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**Highlights**

- We introduce the mm-CTP, a new variant of the CTPs which generalizes several existing problems.
- We propose an exact method for a special case of the variant.
- We propose a GA-based metaheuristic for the general problem (mm-CTP).
- We conducted extensive computational experiments and the results show that our exact method can solve problem instances up to 50 vertices and our metaheuristic gives very high quality solutions. More remarkably, the new genetic algorithm outperforms current state-of-the-art algorithms (see details in the manuscript).

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