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A Matheuristic Method for the Electric Vehicle Routing Problem with Time Windows and Fast Chargers

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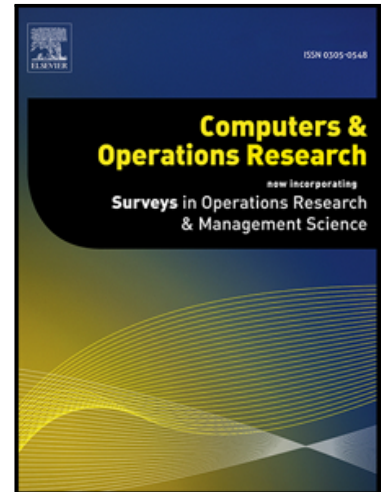
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**Highlights**

- We introduce the Electric VRPTW with fast charging and present two mathematical models.
- We propose an effective metaheuristic approach which combines ALNS with an exact method.
- We introduce new destroy and repair mechanisms associated with fast chargers.
- We propose a novel formulation to optimize the recharging decisions on a fixed route.
- We show the benefits of fast charging in terms of reduction in fleet size and energy costs.

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