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Large Neighborhood-Based Metaheuristic and Branch-and-Price for the Pickup and Delivery Problem with Split Loads

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Highlights

- We consider the multi-vehicle one-to-one pickup and delivery problem with split loads
- We propose an iterated local search metaheuristic and a branch-and-price algorithm
- Optimal p-d pair insertions and splits are efciently found by dynamic programming
- The proposed methods produce high-quality solutions for this difcult problem
- We report the frst set of experiments on genuine multi-vehicle benchmark instances

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