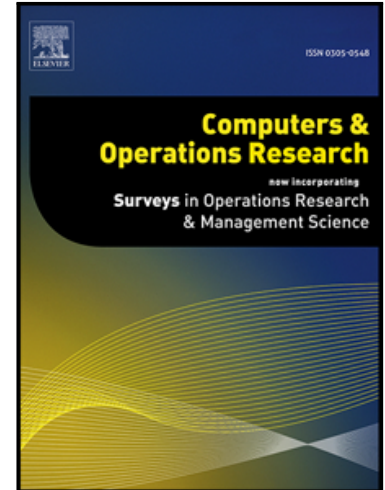


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A Tabu Search Algorithm for the Vehicle Routing Problem with Discrete Split Deliveries and Pickups

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Highlights

- The Vehicle Routing Problem with Discrete Split Deliveries and Pickups (VRPDSPDP) is considered.
- Brief and up-to-date reviews of the problems with split loads, problems with discrete demands, as well as Tabu Search and Local Search algorithms for VRPDPs are presented.
- The features and the optimal solution properties of the VRPDSPDP are analyzed.
- A Tabu Search algorithm for the VRPDSPDP is proposed.
- In proposed TS algorithm, the operations of Batch Combination and Item Creation are specially designed.
- Computational results of the TS algorithm and comparisons are reported.
- Proposed method outperforms the existing methods.

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