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Selective capacitated location-routing problem with incentive-dependent returns in designing used products collection network

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### ACCEPTED MANUSCRIPT

## **Highlights:**

- Capacitated location routing problem with selective pickups are considered.
- The model is based on a used product collection network with incentive dependent return.
- An iterated local search (ILS) heuristic algorithm is developed to solve the model.
- Results for new problem instances and benchmark instances are presented.

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