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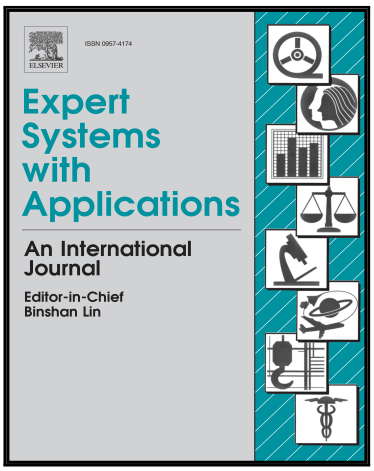

Two-echelon location-routing optimization with time windows based on customer clustering

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Highlights:

- A two-echelon location-routing problem is optimized based on customer partitioning.
- A mathematical model is proposed to minimize cost and maximize service reliability.
- Customers demand uncertainty is assumed and estimated during optimization.
- A modified NSGA-II method and a validity function are designed to obtain solutions.
- Computational results reveal that M-NSGA-II outperforms MOGA and MOPSO algorithms.

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