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An adapted ant colony optimization algorithm for the minimization of the travel distance of pickers in manual warehouses

Roberta De Santis , Roberto Montanari , Giuseppe Vignali , Eleonora Bottani

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Highlights

- A metaheuristic algorithm to minimize the travel distance of pickers is proposed
- The algorithm combines the ant-colony optimization and the Floyd-Warshall procedure
- The performance of the proposed algorithm are tested in two sets of analyses
- The algorithm outperforms the typical routing heuristics under several scenarios

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