Vehicle scheduling based on plant growth simulation algorithm and distribution staff behavior

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ABSTRACT

Considering the distribution staff’s satisfaction and fuzzy characteristics of customers’ time window, the paper makes fuzzy description and measurement of staff satisfaction from such three aspects as salary and welfare, working strength and harmonious cooperation. Taking the minimum total logistics distribution cost and maximum distribution staff satisfaction as the objective functions, the study constructs the logistics distribution vehicle scheduling model considering the staff satisfaction and fuzzy time window. The plant growth algorithm is designed to solve the logistics distribution vehicle scheduling model. The simulation results show that the proposed model succeeds in improving the customer satisfaction and the distribution efficiency, and that the optimization algorithm is feasible and effective.

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Razporejanje vozil z uporabo algoritma, ki simulira rast rastlin in upoštevanjem obnašanja distribucijskega osebja

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POVZETEK

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