

A Study of Applying Ant System for Storage Planning in Distribution Center

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Abstract

Storage planning is one of the most crucial tasks in a warehouse system. There are many literatures focused on storage planning, but there is no one applying Ant System for it. The literature reviews demonstrating the significant effect of ant system in solving the travelling salesman problem. This paper uses global update as the consideration for the scope of search and implement. The experimental results show that the improvement to distance performance is from 10% to 15%. The ant system actually has better performance and it can obtain ideal solution quality.

Keyword : Distribution Centre, Storage Planning, Ant System