Conservation Genetic Algorithm to Solve the E-commerce Environment Logistics Distribution Path Optimization Problem

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Abstract—E-commerce is a business activity that uses modern information technology to process cash flow and logistics to achieve transactions. With the increase of evolutionary algebra, saving genetic algorithm and genetic algorithm all tend to be more optimal. The evolutionary starting point of saving genetic algorithm is much lower than the evolutionary starting point of genetic algorithm. The evolutionary algebra and the population size in the conservation genetic algorithm also have certain influence on the performance of the algorithm. The maximum running distance of the vehicle is different when the trucks have distance limitation and have no-distance limitation. This paper can improve the efficiency of logistics distribution and shorten the distribution distance, which is of great significance for saving logistics costs and improving customer service level.

Keyword—logistics and distribution, vehicle routing problem, saving algorithm, logistics costs

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