

Abstract

In an industrial company has transport parts. Where this part is done for the delivery and retrieval of goods, because the goods required by this industrial company is very important and needs to change at all times. In the case of Transport there are certainly a lot of route options to reach the destination, but those routes, some really take a very long time and cost a lot of money and some spend less time and cost less. Therefore on this final task, the author designed a Smart Logistics for optimization of GPS-based Route determination with Fuzzy-Dijkstra. The Fuzzy-Dijkstra method here is used to determine the route that is the most optimum distance from the departure point to the destination point. From the results of design and testing the system can show the location of the truck with the maximum location accuracy of error deviation +/- 15 meters, there is a product delay of 4 seconds. Dijkstra system can create optimum transport lines using the prepared line matrix, line optimization can update according to rayon or input lines.

Keywords: *Smart Logistics, Optimization of Route, GPS, Fuzzy-Dijkstra, Transport.*