

Abstract

At this time all residents of Bandung need a vehicle to travel to a place that cannot be reached by foot, therefore the local government provides City Transportation facilities. The problem in this study is that the city transportation routes that have been determined by the local government are still main roads that have not been traversed by the City Transportation. Therefore, this research was made to obtain new optimal recommended routes by taking into account the wants and needs of drivers, passengers, and local governments by using the Discrete Bat Algorithm method. The route implemented by the Discrete Bat Algorithm will be compared with the old route based on the Bandung Mayor's decree. From the analysis, it can be concluded that the new recommended route produces the optimal route, because the new recommended route produces a greater number of distances, more driver income, and a higher number of roads compared to the old route.

Keyword : Travelling Salesman Problem, Optimazition, Bat Algorithm, Discrete Bat Algorithm