ABSTRACT

DECISION SUPORT SYSTEM OF OPTIMAL ROUTE IN BANDUNG CITY WITH GENETIC ALGORITHM

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Based on field observations and interviews in Bandung city Transportation Department, the obtained results that the entrants who visited the city of Bandung have the difficulty in determining the route to get to your destination efficiently with time, therefore it is a system that can handle problems route to obtain the fastest time destination place.

In an efficient route solution, required a system with methods that can assist in determining the optimal route. The method is genetic algorithm, because the genetic algorithm is a method by using variable speed in each net that affect travel time in every way and take advantage of the natural selection process known as evolutionary process, this process has the function of recombination, mutation and individual improvement, with using a process - a process that most of the random generated a good solution in the optimal route search process.

Decision-Making System Application built with the method of genetic algorithm, can solve the problem of optimal routes for these applications can be time-efficient menberikan onto the destination.

Keywords: decision-making system, genetic algorithm