

Abstract

In life always traveling from one location to another. With the increasing number of vehicles in the city of Bandung, the city traffic more congested. Lane nearest the center of the town there, does not mean giving a fast travel time but otherwise travel time is longer due to traffic congestion.

Dynamic routing assignment is an important problem to travel, where there is a change to the position of the destination location. In the course of any possible diversion routes of travel plans are done.

In this final project created a dynamic routing assignment system using Ant Colony Optimization approach. Selection of Ant Colony Optimization algorithm because historically that is often used in routing problems. Ant Colony Optimization and the ability to handle changes in system characteristics despite the ongoing process of finding solutions.

Keywords: artificial intelligence, routing, dynamic routing, ant colony optimization, ant colony system.