

ABSTRACT

With the status of a metropolitan city, Bandung certainly has a lot of problems. Lot people living and settled in Bandung, the more dense and minimal land airy. The problem that often occurs in a densely populated areas is a fire. Many of the causes of the fire one of them is short-circuited, natural disasters or human negligence.

When a fire occurs, the fire departement had quickly to get to location of fire. However sometimes the firefighter don't know the situation of street will be passed. when there is a fire, it could be the road is jammed or others obstacle. This should be avoided by firefighters and firefighters have to find ohter freeway lanes to get to fire ocation in right time.

With that problems, needed a solution that is by an application to find the optimal route to get to the fire location. To find optimal route, many things are taken to be calculated. One of them is distance to location, choose the right route to avoid congestion and find water sources such as hydrant.

In this final task, author will build application based on android. So that users, especially the firefighters will be facilitated to find optimal route and traffic information. Selection of these algorithm is because it suitable to find a optimal route.

KeyWord : Android, Ant Colony Optimization