Abstract

Touring become a purpose for a lot of people to refresh themselves from their fatigue at work and other daily activities, with many tourist attractions in Bandung Raya area, it will be hard to manually choose tourist attractions that we want to visit that minimalized time, cost, and etc.

Along with current technology development, there are many research that ease us in Touring, such as research in singapore that find the best touring route using Bi=Genetic Algorithm, and also someone called Vaansteenwegen made an implementation of finding the best route based on first point and last point in touring.

However, research and study cases above still not implemented touring route with a proper schedulling in a proper days, besides that, they still not implement several criteria that affect the touring itself like cost and rating of tourist attractions.

In Finding the best touring route the formulation is based on TSP study cases. There are many algorithms applied with several complexity and type (deterministic and probabilistic). In this Final Task, a metaheuristic algorithm called firefly algorithm(FA) will be implemented because firefly algorithm has proven itself with its accuracy and speed in n-dimension cases. The accuracy in implementation of the algorithm in this final task is also fairly good while evaluating the the criteria and the constraint that defined.

Keywords: Touring, Algorithm, Route, Firefly, Criteria.