Abstract

Bandung city's tourist have increased year by year, causing tourism places of Bandung becoming so much more. Technology provided the convinience for assisting travelers in determining where tourism will be visiting with a software such as Google Maps and Waze. But until now there's only few softwares with the function of determining routes with restrictions such as days of visit restriction that was traveled before. Software development for route search will be using the Particle Swarm Optimization algorithm. The algorithm is often used to solve the problem because of its simplicity and ease of use to adapt to apply a variety of issues and provide optimal value either continuous or discrete values. By testing parameter variable constants in the algorithm, will be tested for optimum route searching whether the algorithm is better or not. The test will determine the optimal values for PSO algorithm. Results from the tests will be used for comparing between PSO and Artificial Immune System Algorithm to ensure that PSO is the optimal one for determining tourism routes.

Keywords: Tourism, Algorithm, PSO, Parameter, Variable.