

Abstract

Bandung Raya is one of the favorite places as a tourist destination. along with the development of technology, travelers are facilitated by the presence of google maps and other directions. But this is not enough to solve the problem of tourists who want to visit many tourist attractions. This study proposes a system that can schedule many tourist attractions within a few days of visits. In scheduling users can consider the criteria for the trip, namely as many tourist visits as possible, visits to popular tourist attractions and visits that minimize costs. To get a tour route scheduling that fits the tourist criteria, this study uses Multiattribute Utility Theory (MAUT). In searching for the best route, this study uses the Cuckoo Search algorithm by evaluating the criteria from user input. At the end of the Cuckoo Search algorithm, it will provide a schedule of visits and directions to the scheduled attractions. Based on the results of the evaluation of optimizing the scheduling of tourist routes with the Cuckoo Search algorithm it has less optimal results than the Simulated Annealing algorithm on the results of total nodes in route and running time.

Keywords: *Cuckoo Search Algorithm, Multiattribute Utility Theory, google maps*