

ABSTRACT

The roads data for this research represented on directed graph, where the distance for every node used as weight for searching the route with Floyd-Warshall Algorithms. The roads distance data is from Google maps with longitude and latitude calculation on every node. Google maps is a free online maps available from Google with digital display and can accessed with internet browser by everyone. Floyd-Warshall Algorithms will find the shortest route, then Google Maps API will show the data result from calculation such a route and track code that can be used as passenger references. Analysis of the results observed in this research is from distance and route that passed by public transportation instead the public transportation from Google Maps. The results of the simulation algorithm in this study showed that a significant difference indicated by the difference of the results the Floyd-Warshall shortest route algorithm with search results of "public transportation" from Google Maps, 30 of total data of the test scenario, producing 22 minimum results and 8 maximum results with presentation of minimum 73%.

Keywords : Floyd-Warshall Algorithms, Google Maps, Shortest Path.