Abstract

Mass number of routes in the city of Bandung city transportation can be an

advantage but also can confuse passengers who want to travel from one place to

another. Time required in a journey are the factors that are often noticed by

passengers.

In this study, has done application and comparison between A * and IDA *

Algorithm in the search for the fastest time and the cheapest fare trip using city

transportation. IDA * algorithm is known suitable for use in mobile applications,

it is necessary to test whether the algorithm A * can be used in this case. In the

algorithm IDA * itself there are DFS iterations function that allows the generation

of the same node over and over again, for that needed special handling in order

iterations were done not too much, namely by adding a sorting algorithm for the

raised successor.

The final results obtained in this study is the algorithm A * can be used on

mobile phones despite generating more nodes than IDA *. Addition of sorting

algorithms on the successor node IDA * also can be said to succeed, because the

number of iterations in IDA * are reduced, the execution time becomes faster too.

Keywords: A*, IDA*, DFS, Fastest Time, Minimum Fare, Sorting

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