

Abstract

The highway is one of the land transportation infrastructure is important enough to connect a variety of places. As we get older, the road will be damaged. At a particular city of Bandung, there are a lot of roads. And not a few of them were damaged. Highways Agency as the agency responsible for the repair of roads, should be able to determine which path should be fixed first based on some specific criteria.

Applications to be built on this research using Analytical Hierarchy Process (AHP). This method is used to solve the problem with a lot of criteria and the value of incomplete information. The results matrix of the method Analytical Hierarchy Process (AHP) is used benchmark for determining Ranking on methods *Superiority* and *Inferiority* Ranking (SIR). *Superiority* and *Inferiority* method Ranking (SIR) to complete the payoff matrix of Analytical Hierarchy Process (AHP) by dividing 2 matrix. From 2 matrix will be compared the results, and we will get the results ranking slices of two matrices being compared.

Keyword : Highway, Priority, Analytical Hierarchy Process, *Superiority* and *Inferiority* Ranking