Abstract

The maintenance of highways as an important role in the reliability of the conditions can be affected positively the economic sector, government, and society. Which will be the priority of highway maintenance planning is to pay attention to the supporting parameters standards that affect the highways segment. These parameters as a variable in Analytic Network Process method. In this research, the first step is to identify problems, data collection, form parameters, data processing parameters before to the next step of the ranking process. After grouping the highway segment, the next step is assessing its highway segment using Analytic Network Process (ANP) method. The results of the ranking process are stored into the database and then represented by displaying the graphs and tables. The final result of the information shows the rankings 27 highways and the result of the accuracy of 80% of the system results. And field data that are shown from one national highway and five provincial highways. From the test results, the system is able to provide information about highway maintenance that will be a priority ranking which one the top list that needed to be maintenance.
References

1. Law of the Republic of Indonesia Number 38 Year 2004 Concerning the Highway.
5. Regulation of the Minister of Public Works No. 13 of 2011 on Procedures for Maintenance and Highway Ownership.

Index Terms

Computer Science  Information Systems

Keywords

Analytic Network Process (ANP), Maintenance, Highway, Web-Based and ANP