

## AN ANALYSIS OF WEBOMETRICS GRADE COMPARATION OF THE BEST UNIVERSITIES IN INDONESIA USING GRADING OF TOPSIS AND VIKOR METHODS

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### ABSTRACT

This research aims at knowing the academic website grade comparison of the best universities in Indonesia according to Webometrics based on Topsis method and Vikor one. This study employed two research instruments, i.e. Search Engine Google and *Web Crawler* Socscibot.

The research type is quantitative research with 30 academic websites of best universities in Indonesia as the research object based on Webometrics rank. Its data collection technique was implemented for 90 days continuously. This was done in order to get reliable and valid data. The data were estimated to get grading result using Topsis and Vikor methods. The data analysis was using Friedman test and Spearman one to obtain a hypothesis feasibility test.

The research result which used a statistic test shows that the Spearman test result of Topsis method grading and Vikor method one is same significant, it was approved by rs score which had value 0.7134 that was bigger than 5% significant value that must be 0.3063; (2) Spearman test result of Webometrics method grading and Topsis method one is different significant, it was approved by rs score which had value  $-0.1693$  that was less than 5% significant value which must be 0.3063; (3) Spearman test result of Webometrics method grading and Topsis method one is different significant, it was approved by rs score which had value 0.0118 that was less than 5% significant value which must be 0.3063; and (4) Friedman test result of Topsis, Vikor and Webometrics method grading has same significant value, it was approved by  $\chi^2$  score which had value 1.8 that was less than significant value with  $\alpha = 5\%$  which must be 5.991.

Keywords: Topsis, Vikor , Webometrics,