

COMPARATIVE ANALYSIS OF WEBOMETRICS RANKING STATE AND PRIVATE UNIVERSITY IN INDONESIA RANKING WITH PROMETHEE AND VIKOR METHODS

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ABSTRACT

The research was conducted to determine the comparative rank among academics website rank in Indonesia by using the promethee and vikor method with Webometrics rank. This study used two instruments, google search engine and web crawler socscibot.

This research object is the top 10 state academic website in Indonesia and top 10 private academic website in Indonesia according to Webometrics rank release in July 2011. Twentieth academic website data retrieval is done using a web crawler and search engine google socscibot to determine visibility, size, rich files, and scholar. After the data was obtained then performed to obtain the results of calculations by the promethee and vikor method. The results were then compared with Webometrics rank the release in January 2012 by using spearman test and friedman test for hypotheses tested.

The results showed (1) Spearman test promethee rank with the same vikor rank is significant, as evidenced by the value of rs count the value 0.9008 which is larger than 5% significance level that should be 0.3805. (2) Spearman test Webometrics rank with promethee rank is significantly different, as evidenced by the value of rs count value -0.1444 which is worth less than 5% significance level that should be worth 0.3805. (3) Spearman test Webometrics rank with vikor rank is significantly different, as evidenced by the value of rs count value -0.2797 which is worth less than 5% significance level that should be worth 0.3805. (4) Friedman test promethee rank, vikor rank, and Webometrics rank is a significant and equal, as evidenced by the calculated F-value 0.225, which is worth less than the significance level of 5% and 2 degrees of freedom that should be worth 6.300.

Key words: promethee methods, vikor methods, friedman test, spearman test, Webometrics, website