ABSTRACT

This study aims to find out which e-commerce websites are good and safe for users. As time goes by, various kinds of security problems in e-commerce also arise with the many transactions made by users. In this study, the Preference Ranking Organization Method For Enrichment Evaluation (PROMETHEE) method was used to determine the priority order in multi-criteria analysis and Multi-Attribute Utility Theory (MAUT) in decision making. This study tested 5 e-commerce websites namely Lazada, Shopee, Bukalapak, Tokopedia, and Blibli against 5 criteria for Malware, Website blacklisting, Injected spam, Defacements, and Website firewalls. Based on the results of the research that has been done, it is known that Tokopedia ranks 1st as the best e-commerce website in terms of security quality, followed by Lazada in 2nd rank, Shopee in 3rd rank, Bukalapak in 4th rank and Blibli in 2nd rank. 5th rank.

Keywords: *website, e-commerce*, PROMETHEE, MAUT