ABSTRACT

Classic retro motorcycles have many choices by design, price, volume / cc cylinder. This results in consumers having difficulty buying a classic retro motorbike that suits their wants and needs. Therefore, we need a decision support system. The decision-making algorithm is based on criteria, in determining retro classic motorbikes that match the user's criteria and some comparison criteria. The criteria used in this recommendation system are based on price, torque, technology, tank capacity, year of manufacture, and number of colors. The system created using the Technique For Order Preference By Similarity To Ideal Solution (TOPSIS) method. The TOPSIS algorithm was chosen because it is one of the multicriteria decision-making algorithms that have many criteria. In addition, this algorithm also uses indicators of alternative criteria and variables as helpers to determine decisions with computational advantages that are efficient and fast. Decision making uses multiplication to relate the attribute rating. The result of this multiplication will produce a ranking of recommendations for selecting a retro classic motorbike based on the order of preference values (V) from largest to smallest. This study produces a website-based system that makes it easier for consumers to process recommendations and makes it easier for admins to process data management more effectively. The recommendation system for selecting a retro classic motorbike with the TOPSIS method can be used properly. The percentage level of data accuracy can be obtained precisely, because each existing data is compared. Data comparison of classic retro motorcycles based on the same volume / cylinder cc.

Keywords: *Classic Retro Motorcycle, DSS, TOPSIS*