IMPLEMENTASI
METODE MULTI ATTRIBUTE UTILITY THEORY (MAUT) UNTUK SISTEM PENDUKUNG KEPUTUSAN PADA PEMBELIAN MOTOR BEKAS

ABSTRAK

Sepeda motor salah satu alat transportasi yang banyak digunakan untuk menunjang aktifitas sehari-hari. Tidak semua individu mampu membeli sepeda motor keluaran terbaru. Sebagian memilih untuk membeli motor bekas. Akan tetapi, untuk mendapatkan sepeda motor bekas yang berkualitas diperlukan kejelian dan ketelitian dalam memilih sepeda motor bekas berdasarkan kriteria yang dikehendaki. Ada kalanya individu membutuhkan jasa inspektor untuk memeriksa kondisi sepeda motor bekas sesuai kriteria yang ditentukan. Pada penelitian ini, digunakan metode Multi Attribute Utility Theory (MAUT) sebagai sistem pendukung keputusan bagi pembeli motor bekas dengan sembilan kriteria sebagai atribut. Sistem pendukung keputusan ini diharapkan mampu memperkecil terjadinya *human error* saat pengecekan motor bekas agar calon pembeli benar-benar mendapatkan motor bekas berkualitas. Hasil perhitungan dari dua puluh pengguna menggunakan metode Multy Attribute Utility Theory (Maut) diperoleh rekomendasi sepeda motor bekas tertinggi dari beberapa alternatif motor bekas yang dipilih oleh pembeli.

Kata kunci: Sistem Pendukung Keputusan, Multi Attribute Utility Theory (MAUT), Sepeda Motor Bekas

IMPLEMENTATION MULTI ATTRIBUTE UTILITY THEORY (MAUT) METHOD FOR DECISION SUPPORT SYSTEM ON THE PURCHASE OF USED MOTORCYCLES

ABSTRACT

Motorbikes are one of the most widely used means of transportation to support daily activities. Not all individuals are able to buy the latest motorbikes. Some choose to buy used motorbikes. In order to acquire a top-notch pre-owned motorbike, one must possess a keen eye and the ability to select a used motorcycle meticulously, following one's specific requirements. Sometimes, people require the service of an inspector to thoroughly assess the condition of a pre-owned motorbike, ensuring it meets all the required criteria. This research employs the Multi-Attribute Utility Theory (MAUT) technique to assist as a decision support system for prospective buyers of pre-owned motorcycles. Nine criteria are considered as attributes in this approach. The primary objective of this decision support system is to greatly minimize the likelihood of human error when inspecting pre-owned motorcycles. It will ensure that potential buyers are guaranteed the highest quality used motorbikes. The calculation results of twenty users using the Multi Attribute Utility Theory (MAUT) method obtained the highest used motorcycle recommendation from several used motorcycle alternatives chosen by the buyer.

Keywords: *Decision Support System, Multi Attribute Utility Theory (MAUT), Used motorcycles*