***A Decision Support System for Determining Coffee Bean Quality
Using the Simple Additive Weighting Method***
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ABSTRACT

In coffee bean processing, one of the most important stages is coffee bean sorting to obtain good quality and produce high-quality coffee. To achieve the best coffee bean quality, various parameters are used to determine the quality level of the coffee beans. This method is applied to facilitate decision-making in determining coffee bean quality. Therefore, a web-based application is developed to assist in accurately determining coffee bean quality by processing data from each parameter that has been assigned predetermined values using the Simple Additive Weighting (SAW) method. This application helps users easily determine the quality of coffee beans that are purchased, sold, or harvested. The Decision Support System application for determining coffee bean quality using the SAW (Simple Additive Weighting) method enables customers to quickly select coffee beans according to the criteria they require. The coffee bean quality Decision Support System application has undergone Black Box Testing and User Acceptance Testing (UAT) conducted by experts, achieving a Black Box test result of 100% and a UAT score of 97.14%. In addition, the system achieved a very high accuracy level of 100%, indicating that the application successfully passed the testing phase.

Keywords*: Coffee Bean Quality, SAW, Website*