APPLYING TSUKAMOTO'S FUZZY METHOD ON DETERMINING UMBRELLA PRODUCTION QUANTITY

(Studi Kasus: Junada Payung, Yogyakarta)

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ABSTRACT

Junada Payung was founded in April 1980. Junada Payung is an umbrella manufacturing company. Junada is located at Ngentak Village, Tempel District, Sleman Regency, Yogyakarta. In making umbrellas, the company uses semi-finished materials, namely fabric and umbrella frame materials. The production process still does not get accurate results according to the number of orders, and there is often a risk of human error.

Applying the Fuzzy Tsukamoto Method in Determining the Amount of Umbrella Production is expected to help HRD determine whether or not the Umbrella Production process is fulfilled according to the order and reduces the risk of human error in Junada Payung. This study uses the Tsukamoto model of fuzzy inference system to determine the company's umbrella production quantity. With this method, it is expected that the estimation will be more precise because based on the value of the set of each criterion, these values are then entered into the basis of the rules that are determined so that more accurate results will be obtained for the Umbrella Production that will be printed in Junada Payung.

In making a decision support system, the author creates a web-based system for the results of this study is a prediction of umbrella production. With the qualification of the system, this system can assist in determining the number of umbrella products using the Tsukamoto Fuzzy Logic method.

Keywords: Production, HRD, Decision Support System, Fuzzy Inference System, Junada Umbrella, Tsukamoto Method, Criteria, Set, Rule Basis.