

Determination of Production Amount of Fashion Products Based on Mamdani Type Fuzzy Inference System

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ABSTRACT

Aspects of quality, cost and delivery are determining factors in winning competition in the industrial world. The right production strategy can lead to optimization of quality, cost and delivery aspects. However, it is not an easy matter for small industries to be able to determine this production strategy. The production strategy must consider supply and demand, as well as existing production data so that it can evaluate whether existing production is optimal or not. Fuzzy Inference System can be used to determine production strategy. This research applies the Mamdani type Fuzzy Inference System to determine production strategies based on inventory and demand data on CV. DW, a small and medium industry in the fashion sector, knows the number of fashion products that must be produced. The application of Mamdani type fuzzy logic in determining fashion production quantities based on inventory and demand data can help companies make decisions with an accuracy value of 83.94% and an error value of 16.04%.

Kata Kunci: *Fuzzy Inference System, Fuzzy Logic, Demand, Supply, Production*