APPLICATION OF FUZZY MAMDANI METHOD IN THE DETERMINATION OF TOTAL PRODUCTION

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ABSTRACT

There are many ways to determine total of production, one of them is by using fuzzy logic. In this research, the determination of the amount of production depends on the number of raw materials, the amount of labor, cost of production, customer’s demand, and the number of stocks.

This research aims to determine how the amount of production using the method Mamdani or often also known as min-max method. The design of the system to get the output done in several stages namely: (1) the formation of fuzzy set, (2) apply an implication method, (3) choose the rule composition, (4) defuzzification. In this research, defuzzification is performed using centroid method.

With this system expected to be made to assist companies in making decisions to determine the number of production must be produced every month to warehouse inventory remained stable.

Keywords: defuzzification, total of production, fuzzy logic.