

ABSTRACT

Nowadays, growing up of vehicle, especially motor vehicle with two wheels (motorcycle) keep on increasing with very significant. From data, show us that growing up of motorcycle had reach 51,5 % in this 5 last years. This increasing number of motor vehicle with two wheels give impact on prime device of technical function from vehicle, it is Tanda Nomor Kendaraan Bermotor/TNKB (number mark of vehicle) metal sheet. One of agency that take care of TNKB metal sheets is Police of Traffic Directorate, it produce metal sheet of vehicle. Traffic Directorate has duty to supply and distribute TNKB metal sheet. In supply of metal sheet (produce process), company get some problems, one of them is the big request, it is 7.200.000 metal sheet of vehicle every years or approximately 600.000 pair of metal sheet every months, until often product that resulted less from demands. In this research, we hope result can help to definite number of proper production. Purpose of this research is how to definite number of proper production with use fuzzy logic.

This research content of some steps, those are data collect with direct survey at field and interview with some people that have relation. In processing data, there are 2 methods will be used. First, subtractive clustering method. This method used when fuzzy clustering, to get center of clusters and divide function of member each variable based on specific groups, fuzzification with suitable curve formula with representation of each variable. Second, one orde of Sugeno method on inference fuzzy system. On this method, do some mapping formulation process from input that given to find out output with use fuzzy logic. And last, to find out result of calculate, have to do the defuzzication with weighted average method.

From process data result, we get 3 center of clusters that its will be used in make function of fuzzy member later. Last result from data process, finded out there was deviation that big enough between existing condition and system.

In last of this research, we've get conclusion that fuzzy logic can be used to find out how much the number of production in a company. However, to get better result, we need more data.

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