

Abstract

In this final task “Prediction of Spread Drill Stem Pest Based on Weather Information using Evolving Fuzzy Algorithm in Kabupaten Bandung” using pest distribution data obtained from department agricultural in soreang. Data has too many missing value on it, to handling the missing value by using interpolation linear method. The data will partition into two parts, traing and testing by using crossvalidation

Based on this research, result overall beetwen using PCA and without it result obtained WMAPE training about 1.815% and for the testing around 0.729%. meanwhile , the score of scenario with PCA is around 0.116% and for the testing 0.1104%. this research of the performance can be concluded that has not produced enough performance for an accurate prediction. Its because the data has much missing value on it and the parameter we used in this research is also have a important role.

Keyword : Keyword : Evolving Fuzzy , Genetic Algorithm (GA) , Fuzzy System , Pest, PCA