Classification of Diabetes Mellitus
Type Two Patients by Using
Hybrid Discriminant Analysis - Genetic Algorithm

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ABSTRACT

Indonesia ranks fourth world in the number of diabetes mellitus patients. 90% of diabetes mellitus patients is type two. To recovery them, drugs is given to the patients. However, the condition of each patient's blood sugar is different in response to receive a drug. There is a condition that patient's blood sugar has been regulated and there is also a condition that the blood sugar has not been able regulated by a given drug. Based on two conditions, we can make a classification with discriminant analysis method and a hybrid discriminant analysis-genetic algorithm. The result shows that hybrid discriminant analysis-genetic algorithm method is better and gives higher classification accuracy than discriminant analysis.

Keywords : genetic algorithm, discriminant analysis, diabetes mellitus, classification accuracy