

Abstract

Treatment of the allergy medicine for now is still limited, the lack of information on patient history of drug allergy can make a doctor gave you medicine that can lead to drug allergy. Some risk factors that can affect the emergence of drug allergy include factors related to medication and treatment (drug properties and drug exposure), as well as factors related to the patient (genetic, previous drug reactions, disease, and the accompanying medical treatment). By studying the factors that cause allergies can be made early detection of the emergence of drug allergy.

In this final project is used ant algorithm to classify rekamedic patients and drug that can detect the presence of drug allergy. From the results of tests performed can be seen that the accuracy of the system for data that had been trained well enough, while for the data that have not been trained relatively poor.

Key words: *Swarm Intelligence, Ant Colony Optimization (ACO), drug allergy*