

***Expert System for Diagnosis of Pests and Diseases of Cut Flower
Chrysanthemum (Chrysanthemum) Using Forward Chaining and Certainty
Factor Methods***

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ABSTRACT

An expert system is a computer application designed to help solve a specific problem. In this study, the expert system built aims to diagnose pests and diseases in chrysanthemum cut flowers by means of the user selecting the symptoms and the level of confidence in these symptoms. This expert system uses the forward chaining and definite method factor. The Forward Chaining method is used to look for possible pests and diseases based on the symptoms experienced by the user, then the Certainty Factor method is used to find the percentage of each possibility using expert weights and user weights as a reference. From the results of testing the accuracy of the system obtained an accuracy rate of 95% from 20 trials.

Keywords : Expert System, Chrysanthemum, Forward Chaining, Certainty Factor