Sistem Pakar Diagnosis Hama dan Penyakit Menggunakan Metode Forward Chaining dan Certainty Factor

Pest and Disease Diagnosis Expert System Using Forward Chaining and Certainty Factor Methods

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ABSTRACT

Innovations in the field of information and communication technology have resulted in advances in computerized information systems. The impact is that activities in processing and delivering information can be done easily, quickly and effectively and efficiently. However, progress in the field of computer science is currently still not accepted by people who do not have sufficient educational background, for example people who work in agriculture. Building an expert system for farmers is the right solution to later be useful as a means of obtaining information about the agricultural sector they manage, in the development of this expert system an expert is needed to conduct an interview process to collect information which then the information is managed into a knowledge base of an expert system created . In the process of developing an expert system, a method is needed to process information in the system, the method chosen is forward chaining and certainty factor.Forward chaining is a search method that matches known facts and then matches those facts with rules that already exist in the system, when a fact is processed then there are facts that match the rules section, it will produce a new fact, then a certainty factor method is needed to resolve cases of uncertainty that are measured based on a fact, so that new facts resulting from the forward chaining process have a certainty value based on expert knowledge

Key Word : Expert System, Forward Chaining, Certainty Factor