

## **RANCANG BANGUN SISTEM PAKAR PERAWATAN JAMBU AIR MERAH DELIMA DENGAN METODE CERTAINLY FACTOR BERBASIS WEB**

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### **ABSTRAK**

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Tanaman jambu air merah delima dapat diserang berbagai macam penyakit, penyakit tersebut dapat diketahui dari gejala-gejala yang ditimbulkannya, akan tetapi untuk mengetahui secara tepat jenis penyakit yang menyerang tanaman jambu air tersebut, memerlukan seorang pakar/ahli pertanian. Sedangkan jumlah pakar pertanian terbatas dan tidak dapat mengatasi permasalahan petani dalam waktu yang bersamaan, sehingga diperlukan suatu sistem yang mempunyai kemampuan seperti seorang pakar, yang mana didalam sistem ini berisi pengetahuan keahlian seorang pakar pertanian mengenai penyakit dan gejala tanaman jambu air merah delima. Pada penelitian ini dirancang sistem pakar berbasis web menggunakan basis aturan (rule based reasoning) dengan metode inferensi forward chaining dan metode Certainly Factor (CF) yang dimaksudkan untuk membantu petani dalam mendiagnosa penyakit tanaman jambu air merah delima. Sistem pakar diagnosa penyakit tanaman jambu air berbasis web yang telah dikembangkan mempunyai keunggulan dalam kemudahan akses dan kemudahan pemakaian. Dengan fitur yang berbasis web yang dimiliki, sistem pakar untuk diagnosa penyakit tanaman jambu air merah delima yang telah dibangun dapat digunakan sebagai alat bantu untuk diagnosa penyakit tanaman jambu air merah delima dan dapat diakses oleh petani dimanapun juga untuk mengatasi persoalan keterbatasan jumlah pakar pertanian dalam membantu petani mendiagnosa penyakit tanaman jambu air merah delima.

Kata Kunci : sistem pakar, hama penyakit jambu air merah delima, certainly factor

## **EXPERT SYSTEM CARE OF "MERAH DELIMA" ROSE APPLE DESIGN WITH CERTAINLY FACTOR METODE BASED ON WEB**

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Merah Delima rose apple plant can be attacked by various diseases, those diseases is able to be classified based on the symptoms that appear, but to get the definite kind of disease that attacked the plants, a expert is absolutely needed. Meanwhile as we know, the existence of this expertise is getting lost in numbers recently, and some of them who exist today could not give best solution from many problems that headed by all farmers. So we need a system with expertise abilities, which inside of this system fulfill with knowledge of many expertises in farming issues, especially about diseases and the symptoms of Merah Delima rose apple plants. The scientist design this expert system based on web, use a rule based reasoning with inference forward chaining method and certainly factor method, which is in purpose to help farmer to diagnoses the kind of diseases for Merah Delima rose apple plants. This expert system diagnoses those kind of diseases based on web that have been developed, so that the user can access this system easily, with various figure on this based on web system , this expert system is used to diagnose those kind of diseases which is built so that it can be used as an additional equipment to diagnose the Merah Delima rose apple plants. And the most important thing is that all of farmers in everywhere can access this system easily, so they would not have any limitation about diagnosing the kind of the diseases, and the issues about the extinctive existence of farming expertise are solved .

**Keyword** : sistem pakar, hama penyakit jambu air merah delima, certainly factor