

**Sistem Pakar Diagnosis Penyakit Tanaman Padi Menggunakan Metode
Teorema Bayes (Studi Kasus : Kec. Sukowono)**
*(Expert System for Diagnosing Rice Plant Diseases Using the Bayesian Theorem
Method (Case Study: Sukowono District))*
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ABSTRACT

Indonesia with most of its population making a living in agriculture, especially in rice cultivation, faces challenges in managing rice plant diseases, one of which is in Sukowono District. Sukowono District is one of the sub-districts in Jember Regency, East Java which has great agricultural potential, but farmers have difficulty in diagnosing rice plant diseases due to limited knowledge. To overcome this, the author proposes the development of an expert system for diagnosing rice plant diseases using the web-based Bayes Theorem method. By utilizing this method, the system can calculate the probability of disease occurrence based on the onset of symptoms, thus providing farmers with accurate and timely guidance in overcoming diseases that attack rice plants. The result of the accuracy rate of the expert system is 100% which means the application is feasible to use, as well as the results of blackbox testing of 99.3%.

Keywords: *rice plants, expert system, website, teorema bayes*