SISTEM PAKAR DIAGNOSA PENYAKIT TELINGA MENGGUNAKAN PERBANDINGAN METODE BAYESIAN NETWORK DENGAN K-NEAREST NEIGHBOR
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ABSTRACT
The ear is the sense of hearing, the ear is used to hearing the sound around us so that we can know or identify what is happening around us without looking at yourself. Therefore, the ear is one of the most important sense for humans, often experiencing ear disorder or infection by bacteria that is needed was an expert or an expert in ear disease. Because of this it takes an ear disease diagnosis expert system is designed to determine the type of ear disease diagnosis based on the results that have been done to the patient. In determining the type of ear disease using Bayesian Network that is by calculating the probability values of all the diseases while the K-Nearest Neighbor method determines the type of ear disease experienced by comparing the value of the proximity of the new case to the case of a long or sample data. This program diagnose ear disease of the symptoms experienced by comparing the two methods. Based on testing of ear disease diagnosis expert system using the comparison method can be said to produce the same output as of 30 test data obtained only 3 different decisions. The accuracy in determining the decision to Bayesian Network reaches 97%, while the K-Nearest Neighbor only reached 93%. It can be concluded that a better method of Bayesian Network in the decision making based on symptoms experienced disease that caused.

Keywords: Ear Disease, Expert Systems, Bayesian Network, K-Nearest Neighbor