

Debi Firlandi, 2012. Diagnosis of Eye's Disease by Tsukamoto Fuzzy Inference System method . This skripsi is under advised by Auli Damayanti,S.Si., M.Si. and Eva Hariyanti,S.Si., M.T. Mathematics Department, Faculty of Sains and Technology, Airlangga University, Surabaya

ABSTRACT

Symptoms of eye disease is often underestimated by most people. Though these symptoms may refer to a serious eye disease. Therefore this thesis aims to implement the Tsukamoto fuzzy inference system method in the case of early diagnosis eye disease. As for eye disease in question is the eye disease conjunctivitis, keratitis and glaucoma. symptoms of eye diseases that used to include red eyes, headaches, nausea, vomiting, swollen eyelids, photophobia, pain on the eyes ball, beklekan eyes, watery eyes and itchy, felt smth in the eye and seen the rainbow effect on vision. Furthermore from these symptoms will be perform on fuzzyfication process. Subsequently established rule in accordance with the symptoms of eye disease refers to a certain eye diseases. At the final stage of the process carried out using the defuzzyfication method of center average defuzzyfier to generate a specific value of the Crips used in decision-making levels are used to diagnosed the disease that is in the level of symptoms or severe level. Tsukamoto fuzzy inference system process then built into the program with Microsoft Visual Basic.NET programming which to be used in patients who test case diagnosis of eye diseases. From the testing can be seen conformance the results of diagnosis program with diagnosis from a doctor is about 91,17%.

Keywords: Fuzzy Logic, Fuzzy Inference System Tsukamoto, Eye's Disease.