## **ABSTRACT**

Title : Application of Fuzzy Tsukomoto Method in Expert Systems to

Diagnosis Acne

Name : Eka Dalas Pangestu

Study Program: Information Systems

Acne is a skin disorder associated with excess oil production (sebum). This causes inflammation and blockage of the skin pores. Inflammation is characterized by the appearance of small lumps (which sometimes contain pus) over the skin. The incidence of acne ranges from 85% and occurs at the age of 14-17 years in women and 16-19 years in men, with an average of many pimples suffering from papules. Problems regarding acne can be solved by an expert system. The expert system applies knowledge about the symptoms of acne to the system. This research uses the Fuzzy Tsukomoto method to diagnose acne because fuzzy logic can build and apply the experiences of experts directly without having to go through a training process. Based on the input value of symptoms the output in the form of information on the category of acne suffered and treatment solutions provided. Based on the results of tests conducted by experts, namely Dr. Puspita Wulandari and Dr. Rafaullyanti produced 88% accuracy of output from the system in accordance with expert knowledge taken from 25 expert accuracy test samples.

**Keywords** : fuzzy tsukomoto, Acne and expert system