**ABSTRACT** 

The skin is the outermost layer of the body that has the function to

protect the organs that exist inside the human body, besides the skin also

includes important organs that exist in the body. The type of human skin in

general consists of three types, including normal skin, dry skin, and oily skin.

Dry skin type is a skin that has a low water and oil content. Normal skin type

is a type of skin that has high moisture content and low oil content so it is

called normal. Oily skin type is a type of skin that has a low water content

and high oil content.

In this study, authors used the GLCM (Gray Level Co-occurence

matrix) method as a method of extraction and LVQ (Learning Vector

Quantization) method as a classification method. The purpose of this research

is to perform analysis of system performance in identifying human skin type

with GLCM and LVQ method.

By designing skin type Identification System using GLCM method

(Gray Level Co-occurence matrix) and LVQ (Learning Vector Quantization)

based on Android It is expected that the system is able to know skin type

based on its microscopic image. The best accuracy obtained in this study was

67% with the parameters used namely image size 512x512, quantization level

8, angle orientation 450, with pixel distance 2 using contrast, correlation,

energy and homogeneity features, learning rate 0.01, and epoch layer 50.

**Keywords**: Human skin type, GLCM, LVQ