

ABSTRACT

The use of technology at this point already is growing rapidly. There have been many technologies that can help solve human problems. In this final project will be designed application identification system for the introduction of gender based on facial images in real time. In such applications using human facial characteristics to identify a person's sex. The introduction of gender can be done through the stages of face detection, feature extraction and recognition gender. The method will be used to identify the characteristics of a person's face is a feature geometry and Gray Level Co-occurrence Matrix (GLCM). And to the process of classification using Support Vector Machine (SVM) to distinguish male or female. The purpose of this thesis is to make gender recognition applications based on the facial image that can be used to observe the person's face in real time. The research in this thesis has been successfully achieved an accuracy of 92% with 50 input image is used

Keywords: face detection, feature extraction, the introduction of gender, Feature Geometry, Gray Level Co-occurrence Matrix, Support Vector Machine, biometric.