Abstract

Nowadays, face recognition systems have been massively used in various applications. However there are some issues common in face recognition process is such as Pose, Illumination, and Expression (PIE). The issues cause the same person's face image to be recognized differently by the system. Elastic Bunch Graph Matching method can handle this issues, because the process uses feature points that created manually. Because of that, This Final Project discusses face recognition using Elastic Bunch Graph Matching method. In this method the face is represented as a graph formed from feature points that created manually. After getting the feature points on the face, calculations are done to get the Jet value followed by the formation of Face Bunch Graph for matching process on Elastic Bunch Graph Matching. the result from experiment shows that the method can be applied to face recognition with accuracy of 91,67%. And can solve PIE issues with accuracy of 70%

Keywords: Face Recognition, Elastic Bunch Graph Matching, Gabor Wavelet