

ABSTRACT

Recognition of human face automatically using computer has been develop rapidly in the last decade. It also have an important impact in some aspects such as security, entertainment, multimedia and health.

In "IMPLEMENTASI METODE FILTER GABOR DAN JARINGAN SYARAF TIRUAN PADA SISTEM PENGENALAN WAJAH", have been develop a recognition of human face system by using a combination of gabor filter method and Artificial Neural Network. Gabor Filter is used because this method is a success characteristic detector method and have an ability to do a characteristic detection on face image. The face classification process use Artificial Neural Network method that can guarantee a high accuration in recognition face image system.

Overall, the system can recognize face image properly. It can be proven from a high recognition precision 75% for scenario 1 where the test and find the best accuracy from a variety of positions and locations retrieval; 93.75% for scenario 2 where the optimal distance test; 88.75% for scenario 3 which to test various expressions to get the best accuracy and 93.75% for scenario 4 and 5 where Gabor filter test different parameters and optimal computing time.

Key word: face recognition, gabor filter, artificial neural network