Abstract

This paper presents a hybrid approach to face detection and feature extraction. The remarkable advancement in technology has enhanced the use of more accurate and precise methods to detect faces. This paper presents a combination of three well known algorithms Viola-Jones face detection framework, Neural Networks and Canny edge detection method to detect face in static images. The proposed work emphasizes on the face detection and identification using Viola-Jones algorithm which is a real time face detection system. Neural Networks will be used as a classifier between faces and non-faces. Canny edge detection method is an efficient method for detecting boundaries on a face in this proposed work. The Canny edge detector is primarily useful to locate sharp intensity changes and to find object boundaries in an image.

References

1. Zulhadi Zakaria"Face Detection Using Combination of Neural Network and Adaboost" Intelligent Biometric Group School of Electrical and Electronics Engineering Universiti Sains
Malaysia.

2. S.P.Khandait, Dr. R.C.Thool, "Hybrid Skin Detection Algorithm for Face localization in facial Expression Recognition", Proceedings of international conference on Advance computing conference-09 (IACC- 09), Patiala, Punjab, India, 6-7 March'09.


15. Neural Network Based Approach for Face Detection cum Face Recognition, World Academy of Science, Engineering and Technology.


Index Terms
An Approach to Face Detection and Feature Extraction using Canny Method

Keywords

MLFFN, FAR, FFR, HIT RATE, CANNY