Abstract

This paper describes a face detection framework that is capable of processing images extremely rapidly while achieving high detection rates. As continual research is being conducted in the area of computer vision, one of the most practical applications under vigorous development is in the construction of a robust real-time face detection system. Successfully constructing a real-time face detection system not only implies a system capable of analyzing video streams, but also naturally leads onto the solution to the problems of extremely constraint testing environments. Analyzing a video sequence is the current challenge since faces are constantly in dynamic motion, presenting many different possible rotational and illumination conditions. While solutions to the task of face detection have been presented, detection performances of many systems are heavily dependent upon a strictly constrained environment. The problem of detecting faces under gross variations remains largely uncovered. This paper gives a face detection system which uses an image based neural network to detect face images.

Reference


Index Terms
Computer Science
Face Detection

Key words
Face detection system
real time
neural network