Abstract

Iris segmentation is an important phase in iris recognition and identifies the accuracy of preprocessing. This paper proposes improved peak detection algorithm to locate the pupil accurately. The modified peak detection algorithm determines the optimal peak which helps for pupil localization. Thresholding is done based on the peak determined. Finally canny edge
detector is applied on the binary threshold image to separate the pupil from the image. The proposed method was tested on CASIA and UBIRIS datasets and the results show that the proposed method segments the pupil from the given iris image. Subjective and objective evaluation proves the efficacy of the proposed method.

Reference


Index Terms

Computer Science

Security
Key words

Pupil Extraction Iris Segmentation Peak
Detection
Finite State Process