

Circular Hough Transform for Iris localization

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Abstract

This article presents a robust method for detecting iris features in frontal face images based on circular Hough transform. The software of the application is based on detecting the circles surrounding the exterior iris pattern from a set of facial images in different color spaces. The circular Hough transform is used for this purpose. First an edge detection technique is used for finding the edges in the input image. After that the characteristic points of circles are determined, after which the pattern of the iris is extracted. Good results are obtained in different color spaces.

Keywords Hough Transform, Iris Detection, Face Recognition, Face Detection