Abstract

The aim of this paper is improving the iris segmentation with the Contourlet transform. At first iris segmentation performed by canny edge detector and Hough Transform. By this approach some images don’t segmented properly, so we want to find a way to correct the image segmentation failures. Before applying edge detector, Contourlet transform applied for image denoising. By this approach, %100 accuracy rate in iris image segmentation is obtained. Denoised image with Contourlet transform a little blurred. After image denoised and image segmented, for keep basic quality of the image, corresponded basic image and the segmented image. So, segmentation will be right on the main image.
- V. Dorairaj, N. A. Schmid, and G. Fahmy, "Performance evaluation of iris based


**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**

Canny edge detector  
Contourlet transform  
Hough transform  
iris recognition  
iris segmentation