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.

References

- J. Zuo, N. D. Kalka, and N. A. Schmid, "A robust iris segmentation procedure for
- K. Bae, S. Noh, and J. Kim, &quot;Iris feature extraction using independent component analysis,&quot; in Proc. 4th Int. Conf. Audio and VideoBased Biometric Person Authentic. (AVBPA), Guildford, U. K., 2003, pp. 838–844.
- V. Dorairaj, N. A. Schmid, and G. Fahmy, &quot;Performance evaluation of iris based
Contourlet Transform for Iris Image Segmentation


Index Terms

Computer Science

Pattern Recognition

Keywords

Canny edge detector  Contourlet transform  Hough transform  iris recognition  iris segmentation