Abstract

Today, Biometric systems are considered superior in technological developments, because they provide a non-transferable means of identifying people not just cards or badges. The image enhancement step is designed to reduce noise in this area. The key point about an identification method that is “nontransferable” means it cannot be given or lent to another
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individual so nobody can get around the system they personally have to go through the control point. The image enhancement before feature extraction system can be very efficient. In this paper a new method is proposed to raise the performance of an ear verification system, since at first, using hybrid denoising method, the noises removed from ear image and then the next step denoisy image is used for verification system. Experimental results in this study show that Gaussian noises well removed from the ear images and has acceptable affect on verification accuracy.

Reference

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**Index Terms**

Computer Science  
Natural Language

**Processing**

**Key words**

Image denoising  
Preprocessing  
Verification system

Adaptive

Neuro-Fuzzy Inference System

Fuzzy Wavelet Shrinkage