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Identification Of a Person using ear biometric detection

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Abstract

Biometric systems are becoming more popular with an increase in the need for strong security systems. The ear is a biometric trait whose structure cannot change in the course of human life. The main aim of the system is to develop a biometric identification system using the ear. The process will involve several steps from addition of the image to the point where a positive identification can be made using the system. The image is obtained using a digital camera. The image is then processed, stored and used for the identification process. For identification, some distinct features are used. After the base data is obtained, the area having the ear image is chosen. Feature extraction extracts the unique data out of the base data and joins them into the biometric feature. Edge detection method is applied for it. Then the external conditions such as lighting are controlled and remain constant and the system produces a desired output.

Keywords-*Biometrics, Ear Biometrics, Feature Extraction, Image Processing, Segmentation.*

Full text: https://sites.google.com/a/ijrit.com/papers/may5/V6I510.pdf