Human Identification based on Iris Recognition for Distant Images

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Abstract

Iris Recognition is one of the most powerful biometrically based technologies for human identification and verification that utilizes the iris patterns which exhibits uniqueness for every individual. In this manuscript, a new algorithm is proposed for iris recognition on distant images. The novelty of this algorithm includes recognition through iris patterns based on both the left and right eye of an individual so as to improve the recognition accuracy and computational efficiency. Experimental tests were performed using CASIA Iris Distance Database which a subset of CASIA V4 Database. The methodology found encouraging development in the field of Iris Recognition.

References


**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**

Iris Recognition System  
Hough Transform  
Hamming Distance