Abstract

Iris recognition is regarded as the most reliable and accurate biometric identification system. Most commercial iris recognition systems use patented algorithms developed by Daugman and these algorithms are able to produce perfect recognition rates. These algorithms are based on linear search methods which make the identification process extremely slow and also raise the false acceptance rate beyond the acceptable range. The proposed iris recognition approach consists of an automatic segmentation system that is based on the various algorithms and is able to localise the circular iris and pupil region, occluding eyelids and eyelashes and reflections. Our proposed method has shown out performing results than existing Houghman algorithms.

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**Index Terms**

Computer Science

Image Processing

**Keywords**

Iris Recognition, Daugman’s Intero-differential operator, Pupil Boundary, Iris Boundary, Segmentation.