

Iris Recognition using Random Forest Classifier

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Abstract – This study discusses the use of iris recognition for biometric identification in situations that demand a high level of security, such as prisons. The human iris database photographs are processed using an image processing approach. It determines the iris's centre coordinates as well as its radius. The iris image is also subjected to noise reduction. The collected features are used as inputs for the random forest classifier, which generates a class for the person's identification. A hybrid approach to feature extraction is proposed in this study, which uses a combination of Gabor wavelet and Harris Corner methods. The collected characteristics are classified using a random forest classifier. The simulation results are put to the test against publicly available data.

Keywords: RF, Harris, Gabor, etc.

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