



Iris recognition

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Overview

Biometric authentication is the most efficient authentication and the most powerful one. No one ever can hack a system with biometric authentication. The most common biometric authentication used before was the fingerprint, but now using computer vision and deep learning we can use iris recognition for authentication.

Goals

1. Generate non-hackable system using Iris authentication security.
2. Use CV to capture eyes and pinout it from the face.
3. Train a deep neural network model on a large dataset to generate a model capable to recognize the Iris.

Milestones

- I. Using DLIB library to detect and recognize the face structure to pinpoint the eyes.
- II. capture the eyes through openCV.
- III. Using Convolutional neural network (CNN) to train the model on the dataset.
- IV. Using SIFT or any better algorithm to find the matching rate.