

# Iris recognition system by using support vector machines

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## **Abstract**

In recent years, with the increasing demands of security in our networked society, biometric systems for user verification are becoming more popular. Iris recognition system is a new technology for user verification. In this paper, the CASIA iris database is used for individual users verification by using support vector machines (SVMs) which based on the analysis of iris code as feature extraction is discussed. This feature is then used to recognize authentic users and to reject impostors. Support Vector Machines (SVMs) technique was used for the classification process. The proposed method is evaluated based upon False Rejection Rate (FRR) and False Acceptance Rate (FAR) and the experimental result show that this technique produces good performance.

**Keywords:** Iris recognition, Support vector machines, Biometrics, Security, Feature extraction, System testing, Support vector machine classification, Pattern matching, Computer networks, Mechatronics

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