Iris Recognition Methods - Survey

Abstract

The premise is that a biometric is a measurable physical characteristic which are reliable than passwords. Iris biometry is used to recognize an individual in a natural and intuitive way. Secure communications and mobile commerce are some of the application areas. Iris based security applications thrive on infra-red cameras and video cameras for logins and transaction authentications. Accuracy, algorithm speed and template size are attributes that are important for large-scale identity programs and national database applications. In this paper, different iris recognition methods which aid an appropriate outlook for future work to build integrated classifier on latest input devices for excellent business transactions are discussed. Benchmark databases, products are also discussed. Since the area is currently one of the most on the go and the bulk of research is very large, this survey covers some of the significant methods.

Reference

- R. Johnston, “Can iris patterns be used to identify people?”, Los Alamos National


- Emine Krichen, M.Anouar Mellakh, Sonia Garcia-Salicetti, Bernadette Dorizzi, “Iris


- CASIA-IrisV3, http://www.cbsr.ia.ac.cn/IrisDatabase. htm

Index Terms

Computer Science

Security

Key words

Iris Recognition

Phase based method

Texture-analysis

Zero crossing

Local intensity variations
Independent Component Analysis

Continuous Dynamic Programming