

A UNIQUE BIOMETRIC COMBINATION OF IRIS AND TEXTUAL PASSWORD USING ICA

SHALLY¹ & GAGANGEET SINGH AUJLA²

¹Research Fellow, Chandigarh Engineering College, Mohali, Punjab, India

²Assistant Professor, Chandigarh Engineering College, Mohali, Punjab, India

ABSTRACT

Biometric recognition refers to an automated identification of individuals based on a feature vector(s) extracted from their physiological or behavioral trait. A multimodal biometric authentication system can be taken as a traditional information fusion so that we can improve the overall decision accuracy for the system. Those biometric authentication system that use more than one physiological trait for enrolment or identification in applications such as entry/exit on the border, ATM or access control, multi-modal biometric systems are looked reducing false acceptance and false rejection rates, presenting an ancillary means of enrolment, and identification if adequate data cannot be obtained from a given biometric specimen and disputing attacks to fool the biometric systems through counterfeit data sources such as synthetic iris images. In this research paper, proposed model provides high security in authentication which protects service user from unauthorized access. In this proposed model, user is required to authenticate himself with biometric identification (Iris recognition) and Personal Identification Number (PIN). This model reduces complexity with authentication as “authentication is always with you” with high security. It also saves time and efforts compared with card based ATMs and also saves environmental pollution problem of excess number of plastic cards.

KEYWORDS: Biometrics, Multimodal Biometrics, Iris Recognition, ICA, ATM, High Security, Authentication