INTRODUCTION

Aims - Identification and authentication of any human will be becoming very important in present time. In the surrounding where electronics devices will more commonly used and there is a need for accurate and secured authentication. Old techniques such as passwords, ID cards, are not accurate and secure. Thus, there shall be increasing to implements for automatic authentication process.

Biometric System:- The word “biometrics” comes from the Greek words “bio” and “metric,” meaning “life computation”. The unparalleled of a personally, physiological and behavioral, characteristics is the basis for the science of biometrics. Typical physiological features measured include an individual’s fingerprints, face, retina, iris, DNA and hand geometry.

Periocular:– The term “periocular” comes from the prefix, “peri-”, meaning “around or about”, and the genus word, “ocular”, meaning “of a relating to the eye”. In biometrics, the term has been applied to both a small region including the eye, eyelids, and lashes.

Acquisition:– Researchers have explored multiple kinds of acquisition techniques in iris recognition. The facial region in the immediate vicinity of the eye. Acquisition of the periocular biometric is anticipated to require less subject cooperation while permitting a larger depth of field compared to traditional ocular biometric. Traits (retina, iris, conjunctiva, periocular)

![Images of biometric traits: retina, iris, conjunctiva, periocular]

Fig. 1. Ocular biometric traits: (1) retina, (2) iris, (3) conjunctiva [12], and (4) periocular

OBJECTIVE:– In this research work following of aspect will be investigated and implemented:

- The effectiveness of incorporating the eyebrows.
- An use of side information (left or right) in matching,
- The manual versus automatic segmentation schemes,
- The local versus global feature extraction schemes,
- The fluidization of face and periocular biometrics,
- An use of the periocular biometric in partially occluded face image
- An effect of pose variation and occlusion,
- An effect of masking the iris and eye region,
- Development of novel technique for periocular recognition,
- Comparative Analysis.