Establishing User Authentication using Face Geometry

Abstract

The use of digital media or information is very precarious for increasing of hacker in the nation. So the information security is one of the commanding articles to shield it. The biometric information security is one information security mechanism, which is powerful than conventional cryptography system. The biometric system plays a vital role in person recognition. The main reason of biometry is so popular in security, because there is no risk if something might be lost or stolen in case of traditional IDs and passwords. After several comparisons among possible features of a human face geometry processing approaches, an authorized person recognition system have been designed and developed. Freely accessible sample faces of different persons are used in this novel biometric authentication system. Furthermore, the functionality to extract features of face has been implemented to compare the new samples with user...
Establishing User Authentication using Face Geometry templates. The implementation has been evaluated by the FAR (False Acceptance Rate) and FRR (False Rejection Rate) of the system in order to reduce FAR. Examining the Distance between some objects of faces and angles between objects points are used in this system and this is the novelty.

References

- Shangling Song; Kazuhiko Ohnuma; Zhi Liu; Liangmo Mei; Akira Kawada; Tomoyuki Monma "Novel biometrics based on nose pore recognition" 2009.
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Index Terms

Computer Science
Applied Sciences
Keywords
Biometric Approach  Face Geometry  Euclidean distance  City block metric  Minkowski distance  Chebychev distance  Cosine distance.