Abstract

In today’s networked world, mobile phone plays a very important role, it affects all aspects of human daily life. The need to maintain the security of information in mobile device is becoming both increasingly important and increasingly difficult. Some human features like fingerprints, face, hand geometry, voice and iris are used to provide an authentication for security systems to reach high security level instead of traditional password based systems. This paper presents a deployment of face recognition algorithms on mobile devices. Proposed approach uses PCA algorithm with FPIE and DCV on mobile device. In this paper all calculations done on a mobile phone, in which a small number of images were used for testing the system. System accuracy is 92% for appropriately chosen threshold, in which the time taken to recognize a face is approximately 0.35 sec and this can increase when database size increased.
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Index Terms

Computer Science Security

Keywords

face recognition PCA DCV FPIE mobile phones