Abstract

As the trend of mobile devices is on the rise, every kind of internet application is being easily accessible locally using mobile apps. The proposed technique will be using one-level double-trap image based authentication for the login protection in cloud platforms on mobile devices. The one-level authentication scheme consists of various small images, which are made of single numerical or alphabetical characters each, in 3x3 point grid formation. The second level password is a 9 clue-points grid based password scheme for pattern passwords. The pattern password input grid is in the static arrangement and does not change at any point of time. The traditional 9 clue-point scheme will additionally allow the overlapping patterns, hence they are prone to the shoulder surfing attacks, whereas the proposed scheme is based on shuffling geometrical shape and the overlapping password pattern to mitigate the threat of shoulder surfing attacks.

Index Terms

Computer Science

Distributed Systems
Keywords

Graphical Authentication, Cue-points, pattern lock, pattern password, cloud authentication, mobile authentication.