Abstract

Password systems have fallen under several attacks in the last decade. Shoulder surfing, key logging, brute force attack and many others have been identified as threats for the security of systems. The conventional (traditional text passwords) are often forgotten by users. In view of this, users often write them down on sheet of paper or any other surface for memorability. Users
tend to choose short and simple passwords in place of long and complex passwords. Graphical passwords have been introduced as an alternative to text passwords. This is because humans tend to remember visuals better than text. This paper attempt to highlight the existing graphical password schemes noting their strength and weaknesses, their usability features and then develop a new graphical password system that combines both graphic and texts passwords to fortify the authentication process on desktop systems.

Reference


Index Terms

Computer Science

Security

Key terms

Brute force

Key logging

Password

Shoulder surfing