Abstract

Avoiding Shoulder Surfing With Graphical Pattern Authentication

Graphical password is one of the alternativesolution to alphanumeric password as it is very tedious process to remember alphanumeric password.When any application is provided with user friendly authentication it becomes easy to access and use that application.One of the major reasons behind this methodis according to psychological studies human mind can easily remember images than alphabets or digits.

If you are a new user then you have to register first and checking on register button and fillup all the details.The combination of password is accepted in numbers from 1 to 8 and in alphabets from a to h.The second option of password is select a color which have to remember while entering your password in loggin form.There are multiple colors here.You will select to green color and we can see which have selected.Then we have clicking on submitted button and registration is successfully.All details are stored into database.

Select the combination of our password by rotating circle clockwise and anticlockwise depending on the selected color which have selected by the registration.So it have selected the green color and the password.We have entered is abc1234.So I need to bring this green color to all the character sequentially like letter 1st start with a and its rotate anticlockwise ,sothe green color is moving them selected the character a.We have the options of outer orbit and inner orbit of characters.So as it present in the outer orbit,we have to select the button of outer orbit.As we select the button the password will be automatically get inserted into the field.So we don’t have to write the password just we need to select the characters associated with the color.

In the proposed scheme ,the user can easily and efficiently login system.We analyse the security and usability of the proposed scheme,and show the resistance of the proposed scheme to shoulder surfing and accidental login.The shoulder surfing attack in an attack that can be performed by the adversary to obtain the user’s password by watching over the user’s shoulder as he enters his password.As conventional password schemes are vulnerable to shoulder surfing,Sobrado and Birget proposed three shoulder surfing resistant graphical password schemes.