Graphical Password based Authentication System with Sound Sequence

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Abstract

There have been many graphical password schemes proposed as alternatives to text passwords. Research and experience show that alpha-numeric passwords are inefficient with both usability and security issues which limit their application in today’s life. Studies have showed that human brain is much better at recognizing and memorizing images than text. Graphical based passwords are intended to make use of this human characteristic with a goal to reduce the memory burden on users, along with a password space which is offered by images, more secure passwords can be produced and users will be spared of unsafe practices in order to cope. This paper focuses on a new click-based graphical password scheme which is known as Cued Click Points (CCP). It can be viewed as a combination of PassPoints, Passfaces and Story. A password comprises of one click-point per image from a sequence of images. The next image displayed is based on the previous click-point so that the users receive immediate feedback as to whether they are on the correct path when logging in. CCP offers better usability, efficiency and security. Users could quickly create and re-enter their passwords. Another feature of CCP is the immediate feedback telling the correct user whether their latest
click-point was correctly entered.

References

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Index Terms

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Keywords

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