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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

A Shoulder Surfing Resistant Graphical Authentication System

ABSTRACT

Authentication based on passwords is used largely in applications for computer security and privacy. However, human actions such as choosing bad passwords and inputting passwords in an insecure way are regarded as "the weakest link" in the authentication chain. Rather than arbitrary alphanumeric strings, users tend to choose passwords either short or meaningful for easymemorization. With web applications and mobile apps piling up, people can access these applications anytime and anywhere withvarious devices. This evolution brings great convenience but also increases the probability of exposing passwords to shoulder surfing attacks. Attackers can observe directly or use external recording devices to collect users' credentials. To overcome this problem, we proposed a novel authentication system PassMatrix, based on graphical passwords to resist shoulder surfing attacks. With a one-time valid login indicator and circulative horizontal and vertical bars covering the entire scope of pass-images, PassMatrix offers no hint for attackers to figure out or narrow down the password even they conduct multiple camera-based attacks.

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EXISTING SYSTEM

Textual passwords have been the most widely used authentication method for decades. Comprised of numbers and upper- and lower-case letters, textual passwords are considered strong enough to resist against brute force attacks. However, a strong textual password is hard to memorize and recollect. Therefore, users tend to choose passwords that are either short or from the dictionary, rather than random alphanumeric strings. Even worse, it is not a rare case that users may use only one username and password for multiple accounts.

DISADVANTAGES

- Image tag completion or refinement has emerged as a hot issue in the multimedia community.
- Locality sensitive framework essential to most partition methods, is extremely unreliable when measured by low-level features and incomplete user-provided tags.

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PROPOSED SYSTEM

we present a secure graphical authentication system named PassMatrix that protects users from becoming victims of shoulder surfing attacks when inputting passwords in public through the usage of one-time login indicators. A login indicator is randomly generated for each pass-image and will be useless after the session terminates. The login indicator provides better security against shoulder surfing attacks, since users use a dynamic pointer to point out the position of their passwords rather than clicking on the password object directly.

ADVANTAGES:

- The problem of how to perform authentication in public so that shoulder surfing attacks can be alleviated.
- The problem of how to increase password space than that of the traditional PIN.
- The problem of how to efficiently search exact password objects during the authentication phase.

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SYSTEM REQUIREMENTS:**HARDWARE REQUIREMENTS:**

System : Pentium IV 2.4 GHz.

Hard Disk : 40 GB.

Floppy Drive : 1.44 Mb.

Monitor : 15 VGA Colour.

Mouse : Logitech.

Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

Operating system : - Windows XP.

Coding Language : JAVA

Data Base : SQL Server 2005.

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