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CONTENT BASED IMAGE RETRIEVAL BY USING MAXIMUM MARGIN AND SEMI SUPERVISED ANALYSIS

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ABSTRACT:

Information retrieval is minimum need to every system, lot of considerable changes improvements were occurred in this area and so many potential practical applications, content-based image retrieval (CBIR) has attracted substantial attention during the past few years. A variety of relevance feedback (RF) schemes have been developed as a powerful tool to bridge the semantic gap between low-level visual features and high-level semantic concepts, and thus to improve the performance of CBIR systems.

Among various RF approaches, support-vector-machine (SVM)-based RF is one of the most popular techniques in CBIR. Despite the success, directly using SVM as an RF scheme has two main drawbacks. First, it treats the positive and negative feedbacks equally, which is not appropriate since the two groups of training feedbacks have distinct properties. To utilize the information of unlabeled samples in the database, we introduced a Laplacian regularizer to the BMMA, which will lead to SemiBMMA for the SVM RF. Second, most of the SVM-based RF techniques do not take into account the unlabeled samples, although they are very helpful in constructinggoodclassifier.

INTRODUCTION

Graphical passwords were first described by Blonder. Since then, many other graphical password schemes have been proposed. Graphical password systems can be classified as either recognition-based (image based scheme, cued recall-based (image based scheme) or pure recall-based (grid based scheme).

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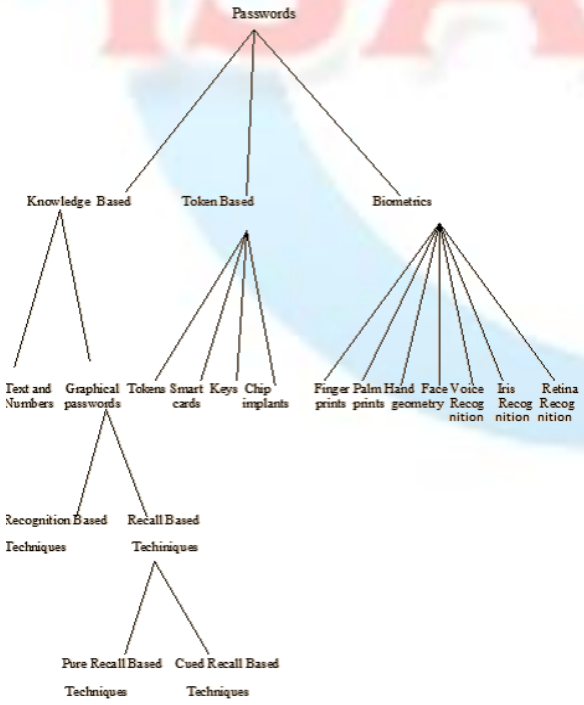
EXISTING SYSTEM:

Existing approaches to Users often create memorable passwords that are easy for attackers to guess, but strong system-assigned passwords are difficult for users to remember. Despite the vulnerabilities, it's the user natural tendency of the users that they will always prefer to go for short passwords for ease of remembrance and also lack of awareness about how attackers tend to attacks. Unfortunately, these passwords are broken mercilessly by intruders by several simple means such as masquerading, Eaves dropping and other rude means say dictionary attacks, shoulder surfing attacks, social engineering attacks.



Disadvantage:

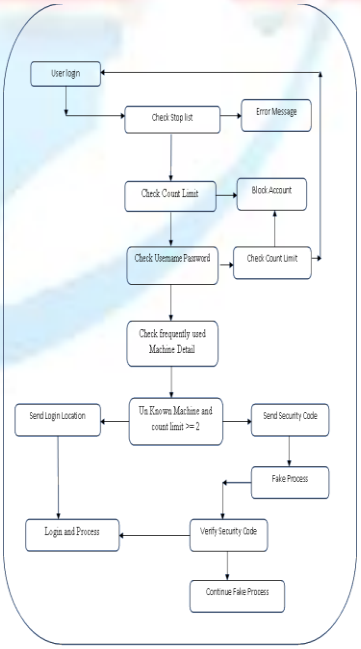
1. The strong system-assigned passwords are difficult for users to remember.

PROPOSED SYSTEM:

We propose is to reduce the guessing attacks as well as encouraging users to select more random, and difficult passwords to guess. The proposed system work merges persuasive cued click points and password guessing resistant protocol.

Advantage:

1. Human brain is good in remembering picture than textual character.



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MODULES

1. Pass Points Module.
2. Cued Click Points Module.
3. Persuasive Cued Click-Points Module.

Pass Points Module:

Based on Blonder's original idea, Pass Points (PP) is a click-based graphical password system where a password consists of an ordered sequence of five click-points on a pixel-based image. To log in, a user must click within some system-defined tolerance region for each click-point. The image acts as a cue to help users remember their password click-points.

Cued Click Points Module:

Cued Click Points (CCP) was developed as an alternative click based graphical password scheme where users select one point per image for five images. The interface displays only one image at a time; the image is replaced by the next image as soon as a user selects a click point. The system determines the next image to display based on the user's click-point on the current image. The next image displayed to users is based on a deterministic function of the point which is currently selected. It now presents a one to-one cued recall scenario where each image triggers the user's memory of the one click-point on that image. Secondly, if a user enters an incorrect click-point during login, the next image displayed will also be incorrect. Legitimate users who see an unrecognized image know that they made an error with their previous click-point. Conversely, this implicit feedback is not helpful to an attacker who does not know the expected sequence of images.

Persuasive Cued Click- Points Module:

To address the issue of hotspots, Persuasive Cued Click Points (PCCP) was proposed. As with CCP, a password consists of five click points, one on each of five images. During password creation, most of the image is dimmed except for a small view port area that is randomly positioned on the image. Users must select a click-point within the view port. If they are unable or unwilling to select a point in the current view port, they may press the Shuffle button to randomly reposition the view port. The view port guides users to select more

random passwords that are less likely to include hotspots. A user who is determined to reach a certain click-point may still shuffle until the view port moves to the specific location, but this is a time consuming and more tedious process.

CONCLUSION:

A major advantage of Persuasive cued click point scheme is its large password space over alphanumeric passwords. There is a growing interest for Graphical passwords since they are better than Text based passwords, although the main argument for graphical passwords is that people are better at memorizing graphical passwords than text-based passwords. Online password guessing attacks on password-only systems have been observed for decade's .Present-day attackers targeting such systems are empowered by having control of thousand to million node botnets.

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