User Authentication by Secured Graphical Password Implementation

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Abstract

For the vast majority of computer systems, passwords are the method of choice for authenticating users. The most widely and commonly used authentication is traditional "Username" and "Password". For such authentication generally text (alphanumeric) is used. It is well-known, however, that passwords are susceptible to attack: users tend to choose passwords that are easy to remember, and often this means that they are also easy for an attacker to obtain by searching for candidate passwords. On the other hand, if a password is hard, then it is often hard to remember. Keeping these things in mind we propose a novel, innovative and more secure way of selecting passwords: Graphical Passwords.

In this paper we explore an approach to user authentication that generalizes the notion of a textual password and that, in many cases, improves the security of user authentication over that provided by textual passwords. We design and analyze graphical
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passwords, which can be input by the user to any device with a graphical input interface.

Reference


**Index Terms**

Computer Science  
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**Key words**

Graphical Password  
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