



AUTHENTICATION SCHEME FOR SESSION PASSWORDS USING COLOR AND IMAGE

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Abstract- *Graphical passwords are believed to be more secure than traditional textual passwords, but the authentications are usually complex and boring for users. Furthermore, most of the existing graphical password schemes are vulnerable to spyware and shoulder surfing. A novel graphical password scheme ColorLogin is proposed in this paper. ColorLogin is implemented in an interesting game way to weaken the boring feelings of the authentication. ColorLogin uses background color, a method not previously considered, to decrease login time greatly. Multiple colors are used to confuse the peepers, while not burdening the legitimate users. Meanwhile, the scheme is resistant to shoulder surfing and intersection attack to a certain extent. Experiments illustrate the effectiveness of ColorLogin.*

Index terms: Graphical Passwords, Shoulder-Surfing, Intersection Attack