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Innovative Color Band Security System to Avoid Shoulder Surfing

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Abstract: *Conventional password schemes are greatly at risk of shoulder surfing, many shoulder surfing graphical way schemes are created. But, end users are more acquainted with textual password than pure graphical password, text-based graphical password schemes are proposed. Sadly, none of the text-based shoulder surfing resistant graphical password schemes is both secure and efficient enough right now. In this paper, it proposed an enhanced version of text-based shoulder surfing resistant graphical password using your favourite color. In this proposed scheme, the user can easily and efficiently login in the system. Next, we analyze the protection and usefulness of the proposed scheme, and show the resistance of the proposed scheme to shoulder surfing and accidental login. The shoulder surfing attack is an attack in which attacker try get the user's password by watching over the user's shoulder as he enters his password. As conventional password schemes are prone to shoulder surfing, Bravado and Biretta proposed three shoulder surfing resistant graphical password schemes. Since then, many graphical password schemes with different degrees of resistance to shoulder surfing are proposed and every has its pros and cons. The alphabet utilized in the proposes scheme contains 16 characters, including 8 small letter alphabets from a to h & 8 numerical from 1-8.*

Keywords: Shoulder Surfing; Color band security; Graphical Password; web security; login security

REFERENCES

[1]. L. Sobrado "Graphical passwords," The Rutgers Scholar, An Electronic Bulletin for Undergraduate Research, vol. 4,2002 .
[2]. M. Sreelatha, M. Anirudh, Md. Sultan Ahamer, and V. Manoj Kumar. "Authentication schemes for session passwords using color and images," International Journal of Network Security & Its Applications, vol. 3, no. 3, May 2011..
[3]. H. Gao, X. Liu and R. Dai, "Design and analysis of a graphical password scheme," Proc. of 4th Int. Conf. on\ Innovative Computing, Information and Control, Dec. 2009, pp. 675-678.
[4]. H. Zhao and X. Li, "S3PAS: A scalable shoulder-surfing resistant textual-graphical password authentication scheme," Proc. of 21st Int. Conf. on Advanced Information Networking and Applications Workshops, vol. 2, May 2007, pp. 467-472
[5]. Schemes using text-graphical passwords," International Journal of Information & Network Security, vol. 1, no. 3, pp. 163-170, Aug. 2012.
[6]. B. R. Cheng, and W. P. Chen, "An efficient login recording attack resistant graphical password scheme Sector Login," Proc. of 2010 Conf. on Innovative Applications of Information Security Technology, Dec. 2010, pp. 204-210.
[7]. S. H. Kim, S. Y. Kim, and H.G. Cho. "A new shoulder surfing resistant password for mobile environments," Proc.of 5th Int. Conf. on Ubiquitous Information Management and Communication, Feb. 2011.