Abstract

Studies have showed significant convenience in remembering pictorial representation of passwords over the textual passwords. The motivation behind exploring a graphical password scheme is based on the remarkable ability of humans to recall pictures easily. In this paper we are presenting the novel approaches for security of pure recall based techniques with the help of biometric authentication i.e. stroke analysis and mouse movement.

References

2004.
5. I. Jermyn, A. Mayer, F. Monrose, M. Reiter, and A. Rubin. The design and analysis of
6. J. Goldberg, J. Hagman and V. Sazuwal, “Doodling our way to better authentication;”
   presented at proceedings of Human Factors in Computing System (CHI),
   Minneapolis, Minnesota, USA, 2002.
7. J. Thorpe and P. C. van Oorschot Graphical dictionaries and the memorable space of
   graphical passwords. In proceedings of the 13th USENIX security Symposium, pages 135-150,
   2004.
8. J. Thorpe and P. C. van Oorschot towards secure design choices for implementing
   graphical passwords. In proceedings of ACSAC, pages 50-60. IEEE Computer Society, 2004
9. M. Pusara and C. F. Brodley, User reauthentication via mouse movements
   VizSEC/DMSEC ’04 : Proceedings of the 2004 ACM workshop on Visualization and data mining

**Index Terms**

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**Keywords**

Graphical passwords, Recall based graphical passwords, Authentication, DAS, and Biometric Security