Abstract

Wireless networks is a collection of nodes that communicate in a open-ended manner. The communication among the nodes allow users to communicate from different places in a boundary. However, this forces lots of challenges for the users as the packets pass in a wireless medium and can overlap with other transmissions. This has been the key factor for this survey presented in this paper. The security algorithms exist separately and can be combined with network model leading to different security protocol standards. This paper provides research direction for security algorithms considering the behavioral aspects of the users namely keyboard dynamics. A complete survey has been presented considering the
keyboard dynamics analyzing how it can be combined with the security algorithms. A broad variety of applications have been analyzed and the suggestions have been presented. A complete list of performance parameters also have been listed at the end of the survey. The paper provides a list of directions for using neural approaches for authenticating users with keyboard dynamics.

References

- Ueli M. Maurer, Stefan Wolf, "Unconditionally Secure Key Agreement And The Intrinsic Conditional Information," IEEE TRANSACTIONS ON INFORMATION THEORY, VOL. 45, NO. 2, MARCH 1999
- D. Bressoud, "Factorization And Primality Testing, Berlin:Springer-Verlag, 1989
- Imre Csiszár, "Common Randomness And Secret Key Generation With A Helper," IEEE TRANSACTIONS ON INFORMATION THEORY, VOL. 46, NO. 2, MARCH 2000
- Bin Sun, Wade Trappe, Yan Sun And K. J. Ray Liu, "A Time-Efficient Contributory..."
Key Agreement Scheme For Secure Group Communications', IEEE, 2002.

Index Terms

Computer Science

Networks

Keywords

Feature Vector keyboard Dynamics keystroke Keying Patterns Keylength