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Computers & Security

Volume 15, Issue 3, 1996, Pages 231-237

Refereed paper

Smart card based secure password authentication scheme

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[https://doi.org/10.1016/0167-4048\(96\)00005-3](https://doi.org/10.1016/0167-4048(96)00005-3)

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Abstract

This paper presents a smart card based remote access password authentication scheme which can verify a log-in password without verification table. It utilizes the signature property of public key systems. The security of our scheme rests in part on the difficulty of factoring a large number and on the discrete logarithm problem. Not only can the network users freely choose their preferred passwords, but the network system can also be protected against replay by time stamping the password.



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Keywords

password authentication; signature; smart card; public key

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