

The Use of User Response Time for Remote Password Authentication

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ABSTRACT

This paper presents a new password authentication method, which is, in addition to depending on matching each password element, it also depends on the time that a user takes (response time) for entering each password element. The t-distribution test is used to examine the input time of each password element with the time limits, which are stored in the system database, for that particular password element. The test is carried out on each password element and the password is accepted when the test is passed for all the password elements or be set to accept some failure.

Key Words: Password, Authentication, Response Time, Authenticated Key Exchange, Verification

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