

The influence of password difficulty on keystroke dynamics using touchscreen-based devices

László Zsolt Szabó, Lehel Nemes, Margit Antal

Electrical Engineering Department, Mathematics and Informatics Department, Sapientia University, Tîrgu Mures

lszabo@ms.sapientia.ro, nemes.lehel@yahoo.com, manyi@ms.sapientia.ro

In this paper we study the keystroke dynamics as an authentication mechanism for touchscreen based devices. A data collection application was designed and implemented for Android devices. Through this application we collected password typing data from 54 users. Data was collected in three sessions, in each session each user entered three types of passwords: easy, strong and logical strong. Several features were extracted from raw data. In order to compare the typing data of different passwords, we developed a novel feature set, which is independent of the password's characters. Using this novel feature set, we evaluated the authentication performances of the three types of passwords.

References

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