Calibrating while Authenticating

Bachelor Thesis

Gaze-based authentication has proven to be secure against shoulder surfing. However, gaze interactions are still facing calibration problems. Users have to calibrate first before using the system adding more time and effort on them. In this project, we aim to create an implicit calibration layer to the smartphone’s authentication. By doing this, users will be able to use their gaze to interact with the phone without any extra calibration step. The student should implement and evaluate the system.

Tasks:

- Build the application
- Usability and security evaluation.
- Analyze the results

Requirements:

- Android programming.

Contact:

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