

User Verification System



User Verification Methods

- ✓ what you have
- ✓ what you know
- ✓ who you are



"who you are" based on

- ✓ mouse movements
- ✓ typing test
- ✓ touchscreen test



Mouse Movements Measurement

- ✓ Direction
- ✓ Angle of Curvature
- ✓ Curvature Distance

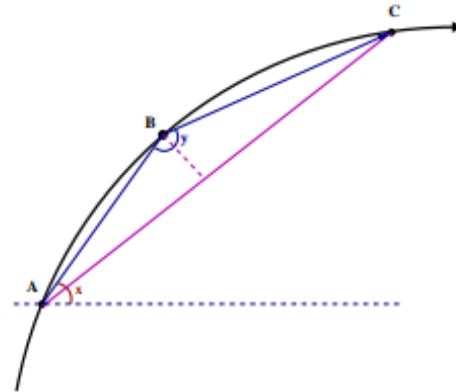
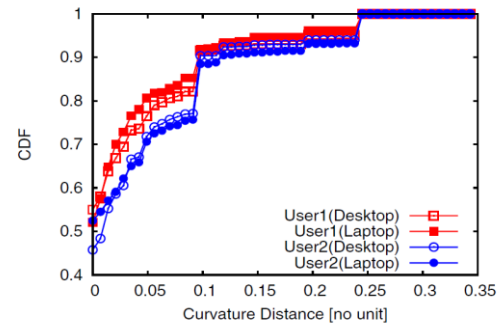
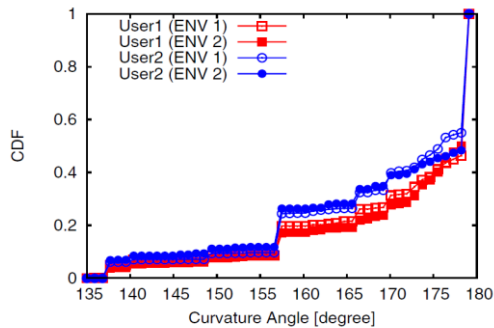
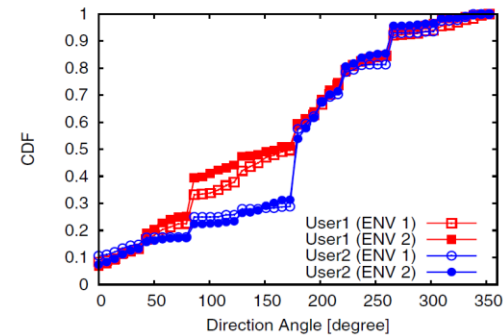


Figure 1: Illustration of angle-based metrics.

Mouse Movements Measurement

- ✓ Data Collection
- ✓ Data Processing
- ✓ Data Metrics



Demo

The image shows a web application for 'Hackathon Bank'. The main header includes the bank's logo, name, and navigation links: Home, Payments, Loans, Investments, and Help. A 'Log Out' button is in the top right. The main content area has a greeting 'Hello marek!' and three account sections: 'Deposit account' (balance: 1000 PLN), 'Credit card' (available balance: 500 PLN), and 'Saving account'. A 'Payments' modal is open, featuring a 'From' dropdown (currently showing '-> Please select account'), an 'Amount' input field, a 'Currency' dropdown (showing 'PLN'), a 'To' dropdown (showing 'To account'), a 'Name' input field, and a 'Narrative' text area. A blue 'Make payment' button is at the bottom of the modal. The footer of the modal says 'Hackathon Krakow'.