

TWC: Small: Collaborative: Secure and Usable Mobile Authentication for People with Visual Impairment



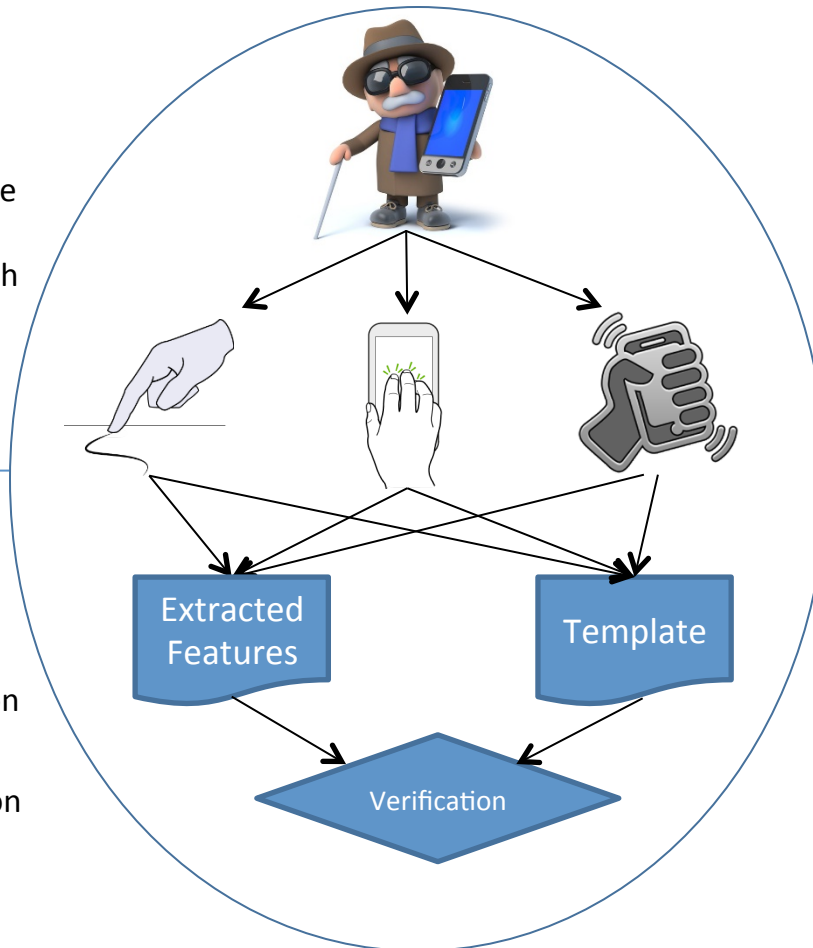
Challenge:

- Develop secure and usable mobile authentication techniques for people with visual impairment

Solution:

A suite of novel two-factor authentication techniques

- Curve-based authentication
- Tap-based authentication
- Shake-based authentication



Scientific Impact:

- Expand the understandings about mobile device security for the visually impaired
- Open up new research directions in secure and usable mobile authentication

Broader Impact:

- Improve the quality of life for the visually impaired
- Develop cross-disciplinary mobile security curriculum
- Research experience for undergraduate and underrepresented students