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



Challenge:

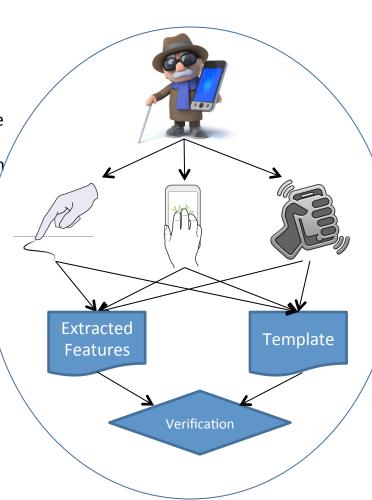
 Develop secure and usable mobile authentication techniques for people with visual impairment

Solution:

A suite of novel two-factor authentication techniques

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

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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 live for the visually impaired
- Develop cross-disciplinary mobile security curriculum
- Research experience for undergraduate and underrepresented students