

Workshop: Who are you?! Adventures in Authentication

Symposium on Usable Privacy and Security (SOUPS)

July 9, 2014

Menlo Park, CA

<https://cups.cs.cmu.edu/soups/2014/workshops/authentication.html>

Submission Deadline: May 15, 2014, 5pm PDT

Notification Deadline: May 30, 2014 5pm PDT

Description:

Our most common method of authentication continues to be based on the assumption of a person using a desktop computer and keyboard, or a person authenticating to their mobile phone. There has been an implicit assumption that the effort of authenticating, both in terms of elapsed time, user actions, cognitive load and impact on a user's primary task, will be amortized over a relatively long lifetime of the authenticated session with the system, application or service. As computing moves into new environments, including mobile and embedded systems, these assumptions may no longer be valid. The user's primary task may be tending to a patient, driving a car, operating heavy machinery, or interacting with friends and colleagues via mobile apps. Due to the nature of user interaction in these new computing environments, and new threat models, methods of authenticating are needed that are both robust, easy to use, and minimize impact on the user's primary task. The time / cost of authentication needs to be commensurate with the level of engagement with these kinds of systems and applications.

The purpose of this workshop is to bring together researchers and practitioners to share experiences, concerns, and ideas about known and new authentication techniques. We are interested in discussing methods of evaluating the impact and usability of various authentication techniques, and ideas about novel authentication techniques that are secure, robust and usable.

Topics of interest for this workshop include:

- Surveys and comparisons of known authentication techniques
- Novel metrics or comparisons of metrics for authentication strength
- Empirical evaluations of authentication techniques, including performance, accuracy, and the impact of authentication on a user's primary task
- New authentication techniques that target emerging computing environments such as mobile and embedded systems
- Approaches (including protocols) that enable weak authentication schemes to be more robust
- Existing authentication techniques applied in new environments or usage contexts
- Novel approaches to the design and evaluation of authentication systems

The goal of this workshop is to explore these and related topics across the broad range of contexts, including enterprise systems, personal systems, and especially mobile and embedded systems (such as automotive and wearable systems). This workshop provides an informal and

interdisciplinary setting at the intersection of security, psychological, and behavioral science. Panel discussions may be organized around topics of interest where the workshop participants will be given an opportunity to give presentations, which may include current or prior work in this area, as well as pose new challenges in authentication.

We are soliciting 1-2 page position statements that express the nature of your interest in the workshop; these should include the aspects of authentication of interest to you, including the topic(s) that you would like to discuss during the workshop and panel discussions. Position statements must be in PDF format, preferably using the SOUPS formatting template (LaTeX or MS Word). Submissions should not be blinded.

Submissions should be made via EasyChair WAY 2014 web site: <https://www.easychair.org/conferences/?conf=way2014>

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