Coauthentication is a single-factor authentication technique in which multiple registered devices work together to authenticate a user. Coauthentication provides security benefits similar to those of multi-factor techniques, such as mitigating theft of any one authentication secret, without some of the inconveniences of multi-factor techniques, such as having to enter passwords or biometrics. Coauthentication provides additional security benefits, including: preventing phishing, replay, and man-in-the-middle attacks; basing authentications on high-entropy secrets that can be generated and updated automatically; and availability protections against, for example, device misplacement and denial-of-service attacks. The principal security properties of coauthentication have been formally verified in ProVerif, and implementations have performed efficiently compared to password-based authentication.

January 29, 2019
3:30 PM
ENB313

THE PUBLIC IS INVITED

Examiner Committee
Jay Ligatti, Ph.D., Major Professor
Dmitry Goldgof, Ph.D.
Yao Liu, Ph.D.
Sean Barbeau, Ph.D.
Kaiqi Xiong, Ph.D.

Yu Sun, Ph.D.
Graduate Program Director
Computer Science and Engineering
College of Engineering

Sudeep Sarkar, Ph.D.
Department Chair
Computer Science and Engineering
College of Engineering

Disability Accommodations:
If you require a reasonable accommodation to participate, please contact the Office of Diversity & Equal Opportunity at 813-974-4373 at least five (5) working days prior to the event.