

SE&T Colloquium Series-Fall 2017

Speaker	Dr. Khandaker A. Rahman Department of Computer Science and Information Systems
Title	<i>User Identification Based on Touch-screen Behavior</i>
Abstract	<p>In touchscreen based unlocking schemes, the identity of a user is verified against a preset pattern/pin before granting access to the smart device. One limitation about it is that an impostor can gain access to the device in rouge ways such as shoulder surfing, following smudge trails or simply guessing. In this experiment, we explored users' spontaneous touch behavioral traits (such as speed, pressure) in order to identify the users when unlocking touchscreens. We extracted various features from user touch activities under four different unlocking schemes and designed our own verifier for identification. We performed experiments with 992 impostor attacks performed on 32 user samples and found that that, users can be identified with an accuracy of up to 77.3% solely by considering their touch behavior. Overall, we achieve an average accuracy of 68.8%.</p>
Date	Tuesday, November 28
Time	4:10-5:00pm
Place	Pioneer 240
	Refreshments will be served at 4:00pm.