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presents

A Vision for Human-Centered Cybersecurity

by

Dr. Matthew Wright

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Time: 4:30 p.m. to 5:30 p.m. Presentation
Location: RIT Campus, Louise Slaughter Hall - Bldg 78, Room 2120
Computer Society announcements and venue information:
   http://ewh.ieee.org/r1/rochester/computer
Cost: Free. Open to IEEE members and non-members.
Note: This event is part of the IEEE Rochester Section's Joint Chapters Meeting (JCM), which does have a fee associated with the optional dinner (reservations required) and keynote address.
   See: https://events.vtools.ieee.org/m/43769

Abstract

While most research attention in cybersecurity is on technology, from cryptography on chips to using machine learning to detect attacks, many security problems in practice are due to people, such as a user opening a malicious email attachment. Understanding and designing for the human beings using, administering, and even attacking our systems is the key to making them more secure, not just on paper but in practice. In this talk, I will discuss some of the research efforts at RIT in human-centered cybersecurity, including new password technologies, measuring the effectiveness of two-factor authentication, understanding the source of security bugs, and modeling attackers. This research forms the core of RIT's new Center for Cybersecurity, housed in the Golisano College of Computing and Information Sciences.

Speaker's Biography

Matt Wright is the Director of the Center for Cybersecurity at RIT and a Professor of Computing Security. He graduated with his PhD from the Department of Computer Science at the University of Massachusetts in May, 2005, where he earned his MS in 2002. His dissertation work examined attacks and defenses for systems that provide anonymity online. His other interests include understanding the human element of security and security and privacy in all sorts of distributed systems, including peer-to-peer, mobile, and Internet of Things. Previously, he earned his BS degree in Computer Science at Harvey Mudd College. He is a recipient of the NSF CAREER Award, the Outstanding Paper Award at the 2002 Symposium on Network and Distributed System Security, and the Outstanding Student Paper Award at the 2016 European Symposium on Research in Computer Security.