

THE CENTER FOR ADVANCED COMPUTER STUDIES

at

the University of Louisiana at Lafayette

Lafayette, Louisiana

Proudly announces a presentation

Dr. Hongxin Hu

Associate Professor

*Department of Computer Science and Engineering
University at Buffalo, SUNY*

will give a presentation entitled

Rethinking Security for the Internet of Things

Abstract: The Internet of Things (IoT) is an emerging computing paradigm spanning smart home, wearable devices, smart cities, and intelligent transportation systems. Building security into IoT is critical today. However, many unique features in IoT, including device resource constraints, device/vendor diversity, and cross-device physical interactions often make traditional IT security approaches impractical. To address those challenges, in this talk, I will present three of our recent research efforts. First, I will introduce a lightweight malware infection detector for IoT devices. Second, I will present a system that mitigates volumetric DDoS attacks with programmable switches. Third, I will briefly discuss an IoT device physical interaction control system, which can discover real IoT physical interactions and enforce safety and security policies.

DATE: FRIDAY, APRIL 9, 2021

TIME: 11:00 A.M – 12:00 NOON

LOCATION: Via Zoom

Biography: Hongxin Hu is an Associate Professor in the Department of Computer Science and Engineering at University at Buffalo, SUNY. He is a recipient of NSF CAREER Award for 2019. His research spans security, privacy, networking, and systems. He has participated in multiple cross-university, cross-disciplinary projects funded by NSF. His research has also been funded by USDOT, Google, VMware, Amazon, Dell, etc. He has published over 100 refereed technical papers, many of which appeared in top-tier conferences such as CCS, USENIX Security, NDSS, SIGCOMM, and CHI, and well-recognized journals such as IEEE TIFS, IEEE TDSC, IEEE/ACM TON, and IEEE TKDE. He is the recipient of the Best Paper Awards from ACSAC 2020, IEEE ICC 2020, ACM SIGCSE 2018, and ACM CODASPY 2014. His research has won the First Place in ACM SIGCOMM 2018 SRC. His research has also been featured by the IEEE Special Technical Community on Social Networking, and received 50+ press coverage including ACM TechNews, InformationWeek, Slashdot, etc.

Zoom Meeting:

<https://ullafayette.zoom.us/j/95570241062?pwd=QTIRV3FYVjdWScTnVTFRN2c2QmErUT09>

Passcode: Fri11Semi