Recruiting Ph.D. Students in Cyber-Physical Security

Department of Electrical, Computer and Biomedical Engineering
University of Rhode Island
Starting in Summer 2019 or Fall 2019

We are seeking applications for Ph.D. assistantship (covering tuition and around $2000 stipend per month), starting from Summer/Fall 2019, in the area of cyber-physical system security.

Cyber-Physical Systems (CPS) play an increasingly important role in critical infrastructure, government and everyday life. Automobiles, medical devices, building controls and the smart grid are examples of CPS. Each includes smart networked systems with embedded sensors, processors and actuators that sense and interact with the physical world and support real-time, guaranteed performance in safety-critical applications.

At the same time, CPS systems also increase cybersecurity risks and attack surfaces. The consequences of unintentional faults or malicious attacks could have severe impact on human lives and the environment. The area of Cyber-Physical Security (CPS-SEC) addresses the security and privacy challenges of CPS.

Students with cyber-physical security training are in high demand and will be able to obtain the jobs related to cybersecurity, cyber-physical systems, and more.

Students will conduct research under the supervision of Dr. Yan Lindsay Sun, and work closely with Dr. Haibo He and other students in related projects. Requirements include:

- B.S. or M.S. degree in computer engineering, electrical engineering, or computer science.
  Ocean engineering, physics and math majors with programing experiences can also be considered.
- Strong interest in cybersecurity, cyber physical systems, algorithms, machine learning, and/or signal processing.
- Previous research experiences in power grid security is preferred, but not required.

The University of Rhode Island (http://www.uri.edu/) is a flagship research university located in New England area. The campus, being 1.5 hours from Boston and three hours from New York City, is ranked top 10 safest university campus in US. The department (https://web.uri.edu/ecbe/) has six IEEE fellows, five NSF or ONR early career award winners, and received numerous regional, national, and international awards.

To apply, please send the CV and transcripts to Prof. Sun (https://web.uri.edu/ecbe/yansun/).