LIONS Center

Center for Cyber-Security, Information Privacy, and Trust

LIONS Center

Security • Trust • Privacy

PENNSTATE

http://cybersecurity.ist.psu.edu/

Vision: The LIONS Center will be synonymous with seminal works in *interdisciplinary* cyber-security research.

Mission:
▫ Detect and remove threats of information misuse to the human society: mitigate risk, reduce uncertainty, and enhance predictability and trust.
▫ Produce leading scholars in interdisciplinary cyber-security research.
▫ Become a national leader in information assurance education.

Goal:
▫ The LIONS center will be the best at performing inter-disciplinary research in cyber-security and privacy.

▫ The LIONS center will play a leading role in helping Penn State pursue security and risk R&D opportunities that revolve around DHS, NSA, and DoD.

Center at a Glance:
▫ Core Faculty: 8
▫ Collaborating Faculty: 20+
▫ Research Associates: 4
▫ Ph.D. students: 30+
▫ Publications since 2002: 250+
▫ Annual Publications: 50-70
▫ Active Grants: $9,000,000+ (core faculty credit)

Recent Highlights of the Center:

Heng Xu has received the NSF CAREER Award, 2010-2015.

Peng Liu won a MURI grant "Cyber Situational Awareness" in collaboration with CMU, GMU, NCSU, UMD and ASU, 2009-2014.

Re-designated by DHS and NSA as a *Center of Academic Excellence in Information Assurance Education*, 2009-2014.

Peng Liu won a NSF Trustworthy Computing Medium-Size Grant "Towards Self-Protecting Data Centers: A Systematic Approach" in collaboration with GMU and WIU, 2009-2012.

Designated by NSA and DHS as a *National Center of Academic Excellence in Information Assurance Research**, 2008-2013.
* Together with CSE

Anna Squicciarini won a NSF Cyber-Trust Medium-Size Grant "Securing Dynamic Online Social Networks" in collaboration with UT San Antonio and ASU, 2008-2012.

Sencun Zhu has received the NSF CAREER Award, 2007-2012.

Research Themes:

- System Survivability and Biological Analogy
- Security, Game Theory, and Microeconomics
- Privacy and Social Systems
- Identity and Trust Management
- Assured Information Sharing and Search
- Security and Risk of Extreme Event Systems
- Cyber-security Pandemic and Network Science
- Security and Privacy in Virtual World
- Self-Healing Systems and Enterprise Security

Chao-Hsien Chu
Education Co-Director
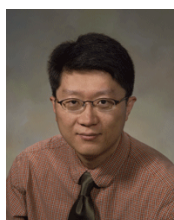
Dongwon Lee
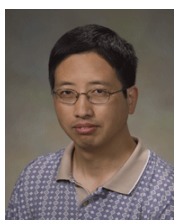
Peng Liu
Director

William McGill

Anna Squicciarini
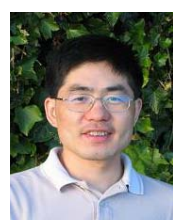
Dinghao Wu

Heng Xu
Associate Director for Outreach

Sencun Zhu