



LIONS Center

Center for Cyber-Security, Information Privacy, and Trust

LIONS Center

Security • Trust • Privacy



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.

External Goal:

- The LIONS center will be the best at performing interdisciplinary research in cyber-security and privacy.

Internal Goal:

- The LIONS center will be a “bridge” in promoting interdisciplinary research and incubating new research strengths within IST.
- 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: 7
- Collaborating Faculty: 20
- Research Associates: 2
- Ph.D. students: 19
- Publications since 2002: 200+
- Annual Publications: 30-40
- Active Grants: \$3,000,000+ (core faculty credit)



Recent Highlights of the Center:

Designated by NSA as a *Center of Academic Excellence in Information Assurance Education* in 2003 and 2006.

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.

Peng Liu won a DoD (AFOSR) MURI grant, “MURI: Autonomic Recovery of Enterprise-Wide Systems after Attack or Failure with Forward Correction,” in collaboration with GMU and Columbia, 2007.

Sencun Zhu was awarded the NSF CAREER Award in 2007.

Heng Xu was a runner-up for the 2006 ACM SIGMIS Doctoral Dissertation Award Competition.

Research Themes:

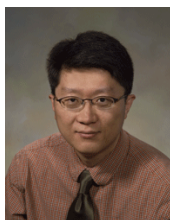
- System Survivability and Biological Analogy
- Security, Game Theory, and Microeconomics
- Privacy and Social Systems
- Identity and Trust Management
- Assured Information Sharing and Search
- Cyber Situation Awareness

This publication is available in alternative media on request.

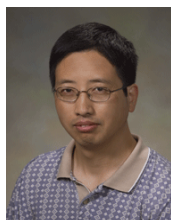
Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.
U. Ed. IST 09-12.



Chao-Hsien Chu
Education Co-Director



Dongwon Lee



Peng Liu
Director



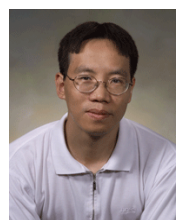
William McGill



Anna Squicciarini



Heng Xu
Associate Director
for Outreach



Sencun Zhu