

International Perspectives of Cyber Security

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NASSCOM
National Association of Software and Service Companies

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Who am I?

- PhD. candidate in the School of Computer Science at Carnegie Mellon University, USA
- Research interests - Privacy, Security, Trust, Human Computer Interaction, and Learning Science
- Currently working with Mr. Shyamal Ghosh and Mr. Nandkumar Saravade, NASSCOM

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Outline

- Security and privacy related research at CMU
- Security and privacy related research at other schools
- Concluding remarks



Research at CMU

- Cyber security - CyLab
- Data privacy - Data Privacy Lab
- Economics of Information Security - Heinz school
- Usable Privacy and Security - CUPS Lab

What is CyLab?

- Consortium of students, researchers, and faculty from different departments at CMU
- Focus on technology, human resources, and industry
- Mission
 - Develop technologies for next generation
 - Create cyber-awareness at all levels
 - Technology transition and deployment
- <http://www.cylab.cmu.edu/>

CyLab projects

- Grey
 - Access control using ubiquitous computing devices
- People Finder
 - To find the location of a person using their mobile phone through General Packet Radio Service (GPRS)
- Privacy policy enforcement language
 - Representing internal privacy policy in machine readable format

What is CUPS?

- Students, faculty, and researchers from different departments of CMU
- Understanding and improving the usability of privacy and security software and systems
- <http://cups.cs.cmu.edu/>

CUPS Projects

- Platform for Privacy Preferences (P3P)
 - Analyzing adoption of P3P
 - Analyzing P3P errors
- Supporting trust decisions
 - Computer side
 - PILFER - Phishing Identification by Learning on Features of Email Received
 - Human side
 - PhishGuru
- Privacy Finder

What is Data Privacy Lab?

- Students, faculty and staff from different departments of CMU
- To create technology and related policies to provide privacy protection
- <http://privacy.cs.cmu.edu/>

Data Privacy Lab - Projects

- Facebook, MySpace risks
 - Examines invasion of privacy due to the information posted on these social network websites
- To prevent re-identification of personal data

Economics of Information Security

- Price discrimination
 - Use profiles to to discriminate price among users

Other Schools

- Massachusetts Institute of Technology
 - User interface solutions for phishing
- Harvard
 - Security and Privacy usability
- UC Berkley
 - Economics of information security

Concluding Remarks

- CSRC can learn from other research / labs around the world
- CSRC can produce international quality output

Thank you