



Information Networking Institute Launches Program in Silicon Valley

Fall 2008 marks the launch of a new professional graduate degree program in information technology that will give students the experience of two locations, the rich academic setting at Carnegie Mellon's main campus in Pittsburgh and the unique professional exposure at Carnegie Mellon's Silicon Valley campus. The Masters of Science in Information Technology program integrates technology, management and industry experience to prepare students to become intelligent decision-makers in the field of information technology. The program integrates technology, management and industry experience to prepare students to become intelligent decision-makers in the field of information technology. All students will gain the strategic thinking skills and insight that are essential for technology leaders in today's competitive business environment.

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Advances in computer and communications technologies have formed the basis for global economic growth and an increase in our standard of living for more than two decades. We rely on information technology in all aspects of our daily life, and with this reliance comes the need to make information systems more secure, trustworthy, sustainable, and available in the face of both intentional attacks and accidental faults. That's why Carnegie Mellon launched CyLab, a broad new I.T. security initiative that builds on the university's decades of leadership in the field, leadership cultivated at the institutes detailed on this page, from the Software Engineering Institute's world-renowned CERT/CC computer emergency response team to the Laboratory for Data Privacy's work to keep personal information safe and secure.

CyLab: Carnegie Mellon CyLab is a bold and visionary effort aimed at creating a public-private partnership to develop new technologies for measurable, available, secure, trustworthy and sustainable computing and communications systems and to educate individuals at all levels. CyLab is a university-wide, multi-disciplinary initiative involving more than 200 faculty, students and staff, and builds on more than two decades of Carnegie Mellon's leadership in Information Technology. Through its close connection to the CERT/CC, CyLab also works closely with US-CERT, a partnership between the Department of Homeland Security's National Cyber Security Division

(NCS) and the private sector, to protect our national information infrastructure. CyLab is an active participant in the Pittsburgh Regional Cyber Team, in which foundations, universities, businesses, and economic development organizations have conducted a path breaking analysis of the growth and development of the cybersecurity industry in the US. www.cylab.cmu.edu

Institute for the Study of Information Technology and Security: InSITEs is dedicated to the exploration of how society shapes and is shaped by information technology. InSITEs focuses its energies around six core areas:

Jon Peha Chairs Briefing To Improve Broadband Opportunities for Public Safety Officials

Carnegie Mellon University's Jon Peha moderated a Washington, D.C., panel discussion in July with four public safety representatives to discuss how a few emergency agencies are making effective use of broadband technology. The panel discussion comes at a time when the Federal Communications Commission (FCC) is preparing to release prime real estate in the radio spectrum, some of which is intended for public safety. The 700 MHz band is ideal for broadband services, which Peha's panel will argue are essential for addressing the need for a national safety communications network. Experts say a better communication system for firefighters and other emergency rescuers during the Sept. 11 terrorist attacks in New York City and Hurricane Katrina crisis could have saved many lives. Peha, associate director of Carnegie Mellon's Center for Wireless and Broadband Networking and a professor in the departments of engineering and public policy and electrical and computer engineering, reports that public safety communications systems could be improved if the federal government provided greater leadership and support rather than leaving the matter to thousands of independent local agencies.



e-governance and civic engagement; cybersecurity policy; I.T. and social and economic development; ecommerce; privacy and information policy; and telecommunications, law and policy. In performing this mission, InSITEs aspires to bring together technologists and non-technologists, both locally and globally, to promote a quality of analysis adequate to the challenges and opportunities posed by the ongoing I.T. revolution. insitesinfo.org

CERT Coordination Center: Established in 1988 as the first computer security incident response team, the CERT/CC is internationally recognized as a trusted reporting center for cyber security incidents and technology vulnerabilities. The CERT/CC alerts the Internet community to potential threats the security of their systems and provides information about how to avoid, minimize or recover from the damage. www.cert.org

The Survivable Enterprise Management

Group: This group seeks ways to build security and survivability into systems before they are deployed. The staff defines and transitions organizational and technical security practices and methodologies to help government, non-profit and private organizations evaluate, improve and maintain the security their systems.

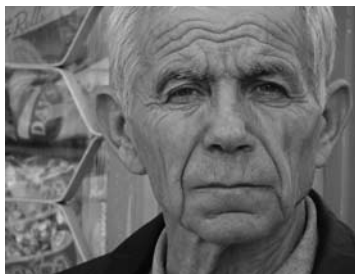
Laboratory for International Data Privacy:

The LIDAP is an interdisciplinary research group dedicated to exploring, assessing and creating technology that provides scientific assurances of anonymity in data. Its findings are providing the intellectual basis needed to shape the inform policy dealing with evolving relationship between technology and the legal right to or public expectation of privacy in the collection and sharing of data. <http://privacy.cs.cmu.edu>

Information Networking Institute: INI offers professional graduate degree programs in information networking, information security, and information technology that integrate technologies, economics, and policies of secure communication networks. The INI is also the education partner of Carnegie Mellon CyLab, a university-wide, multidisciplinary research center. As part of its globalization strategy, the INI offers professional degree programs at partner institutions in both Europe and Asia: Athens Information Technology in Athens, Greece, and the Hyogo Institute of Information Education Foundation at Carnegie Mellon CyLab Japan in Kobe, Japan. www.ini.cmu.edu

Center for Broadband and Wireless

Networking: Founded in 2001, this interdisciplinary center is focused on research and education in advanced networking concepts and systems with an emphasis on industrial



Osher Institute Offers Cybersecurity Classes to Senior Citizens

According to a recent Pew study, 22 percent of Internet users were senior citizens in 2004, compared to 15 percent in 2000. While recent media has brought attention to the importance of cybersafety information for parents and school children, a need for this information exists for senior citizens, as well. As with other Internet users, older adults can fall prey to spam and phishing scams, worms, viruses and social

networking dangers, but unlike other adults who may use computers at work or school, seniors may have fewer sources available to them for safety information. Enter the Osher Institute (former the Academy of Lifelong Learning), a non-credit program supported and chartered by Carnegie Mellon University in 1992 for any adult in the Pittsburgh area. Last winter, roughly a dozen older adults braved the cold and settled into the Distributed Education Center at the Information Networking Institute for their first class in a course on cybersecurity. With this seven-week course, called Take Steps to Secure Your Part of Cyberspace, the INI and Carnegie Mellon CyLab introduced its cybersafety education to the fastest growing age group logging on to the Internet—senior citizens. The course covered safety discussions and recommended practices pertaining to email, Web browsing, e-commerce and personal safety. The INI plans to further develop materials for older adults through its outreach programs, including its educational portal at www.MySecureCyberspace.com.

relevance. The center's work melds many of Carnegie Mellon's existing strengths including: interdisciplinary research, wired networks, wireless networks, and optical devices and signal processing. www.ece.cmu.edu/research/areas.html

Center for the Computational Analysis of Social and Organizational Systems: Using a mix of social and computer sciences, researchers at CASOS are attempting to understand and model the way groups are structured, communicate and interact. Through modeling of two distinct groups: the human group institution or society and the multi-agent artificial computational system, new insights into the fundamental principles of organizing, coordinating and managing multiple information processing agents are gained. The center currently has five research thrusts: organizational design; adaptation and evolution; social and organizational networks; e-commerce and validation and analysis. www.casos.cs.cmu.edu

Data Storage Systems Center: Founded in 1990, this NSF Engineering Research Center is considered to be the preeminent university-based research and education program in magnetic and magneto-optic recording technology in the United States. The main research thrusts are storage and computer systems integration, magnetic recording technology, magneto-optic recording technology and the electronic subsystems used in the above technologies. www.dssc.ece.cmu.edu

CMU Usable Privacy & Security Laboratory:

CUPS was established in 2004 to bring together Carnegie Mellon researchers working on a diverse set of projects related to improving the usability of privacy and security soft-

ware and systems. The privacy and security research community has become increasingly aware that usability problems severely impact the effectiveness of mechanisms designed to provide security and privacy in software systems. Indeed, one of the four grand research challenges in information security and assurance identified by the Computing Research Association is: "Give end-users security controls they can understand and privacy they can control for the dynamic, pervasive computing environments of the future." This is the challenge that CUPS strives to address. CUPS is affiliated with Carnegie Mellon CyLab. <http://cups.cs.cmu.edu>

Entertainment Technology Center: The concept behind the ETC is to have technologists and fine artists work together to produce artifacts that are intended to entertain, inform, inspire or otherwise affect an audience/guest/player/participant. Despite the center's name, a number of its projects have strong connections to national security issues, such as the firefighting training simulation Hazmat: Hot-zone; PeaceMaker, a video game simulation of the Israeli-Palestinian conflict that can be used as a tool to promote peaceful resolutions among Israelis, Palestinians, and young adults worldwide; and MySecureCyberspace for Kids, a collaboration with CyLab that aims to educate children about cyber security and instill in them good cybercitizen habits, so that being safe and secure online becomes as second nature as brushing their teeth or looking both ways before crossing the street. www.etc.cmu.edu