CENTER FOR SECURE CYBERSPACE

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UPCOMING EVENTS:

THE CENTER FOR SECURE CYBERSPACE WILL HOST THE 3RD CYBERSPACE RESEARCH WORKSHOP, ALONG WITH THE CYBER INNOVATION CENTER AND AIR FORCE GLOBAL STRIKE COMMAND'S TECHNOLOGY AND INNOVATION SYMPOSIUM AT THE SHREVEPORT CONVENTION CENTER IN BOSSIER CITY - SHREVEPORT, LOUISIANA ON NOVEMBER 15TH, 16TH, AND 17TH, OF 2010.

COLLABORATING IN CYBERSPACE

ABOUT THE CENTER

About the CSC:

The Center for Secure Cyberspace (CSC) is a joint collaboration between Louisiana State University and Louisiana Tech University created to assist faculty members in their research, and to support federal, state, and private sector cyberspace security needs in collaboration with the Cyber Innovation Center (CIC) in Bossier City. Located on the campus of Louisiana Tech University, the CSC capitalizes upon world-class resources of the Louisiana Optical Network Initiative, Louisiana Tech's Institute for Micromanufacturing, and LSU's Center for Computation and Technology.

Purpose of the CSC:

The goal of the Center for Secure Cyberspace is to establish a National Center of Excellence dedicated to education and research in integrated smart cybercentric sensor surveillance systems.

Research Focus Areas:

1) Dynamic Network Formulation
2) Secure Information Dissemination
3) Data Fusion and Prediction of Disaster Precursors
4) Visualization and Validation

Research Team Members

Dr. Vir Phoha, Louisiana Tech University

Dr. S.S. Iyengar, Louisiana State University

Dr. Gabrielle Allen, Louisiana State University

Dr. Travis Atkison, Louisiana Tech University

Dr. Kiran Balagani, Louisiana Tech University

Dr. Peter Chen, Louisiana State University

Dr. Christian Duncan, Louisiana Tech University

Dr. Jean Gourd, Louisiana Tech University

Vasanth Iyer, Louisiana State University

Dr. Jinko Kanno, Louisiana Tech University

Dr. Md. Enamul Karim, Louisiana Tech University

Dr. Joseph Kizza, University of Tennessee @ Chattanooga

Dr. Tevfik Kosar, Louisiana State University

Dr. Supratik Mukhopadhyay, Louisiana State University

Dr. Asok Ray, Pennylvania State University

Dr. Rastko Selmic, Louisiana Tech University

Dr. Greg Vert, Texas A&M University

Dr. Jian Zhang, Louisiana State University

CYBERSPACE RESEARCH WORKSHOP

CRW' 10

The Center for Secure Cyberspace, the (CSC), a collaborative effort of Louisiana Tech University and Louisiana State University, announces the upcoming 3rd Cyberspace Research Workshop

This event will be held on November 15, 2010 in conjunction with the Air Force Global Strike Command Technology and Innovation Symposium at the Shreveport Convention Center in Bossier City-Shreveport, LA.

The workshop will provide a venue to discuss emerging technologies, share ideas and create opportunities for researchers and practitioners in various areas of cyber security.

All participants are invited to submit full papers of five-ten pages, and extended abstracts four pages, by September 1, 2010. Registration and full submission instructions are located at: http://csc.latech.edu/crw10. This year, submissions will be made through EasyChair. Our conference is located at: http://www.easychair.org/conferences/?conf=crw10. More information about the AFGSC Technology and Innovation Symposium can be found at: http://www.cyberinnovationcenter.org/symposium.

Theme:

This year, the theme of the workshop centers on security in a cyber-centric world where cohabitation with malware is presumptive.

Cyberspace is increasingly becoming more mainstream and an active part of our lives. It is fraught with risk particularly due to the explosion of malware and other malicious entities. While much research attempts to address security within cyberspace, it is incumbent upon us to also consider an environment where people and malware cohabit.

The purpose of CRW'10 is to engage in discussions that address cyber security in such an environment by analyzing problems and finding solutions in a wide range of relevant areas.

Topics (including but not limited to):
*Strategic Cyber Defense
*Global Cyber Situational Understanding
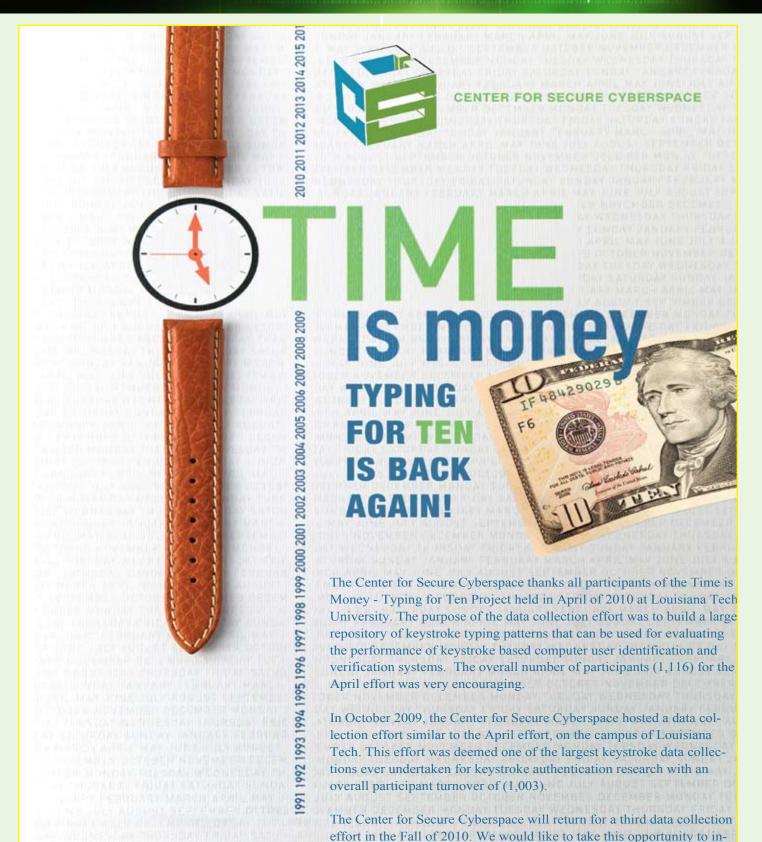*Malware & Anti-Malware Technologies
*Coping with Malware
*Information Security & Assurance
Information Warfare
*Cyberspace & the Human Element

TIME IS MONEY - TYPING FOR $TEN

CENTER FOR SECURE CYBERSPACE

TIME IS money

TYPING FOR TEN IS BACK AGAIN!

The Center for Secure Cyberspace thanks all participants of the Time is Money - Typing for Ten Project held in April of 2010 at Louisiana Tech University. The purpose of the data collection effort was to build a large repository of keystroke typing patterns that can be used for evaluating the performance of keystroke based computer user identification and verification systems. The overall number of participants (1,116) for the April effort was very encouraging.

In October 2009, the Center for Secure Cyberspace hosted a data collection effort similar to the April effort, on the campus of Louisiana Tech. This effort was deemed one of the largest keystroke data collections ever undertaken for keystroke authentication research with an overall participant turnover of (1,003).

The Center for Secure Cyberspace will return for a third data collection effort in the Fall of 2010. We would like to take this opportunity to invite all faculty, staff, and students to return for the follow-up event.

CYBER STORM 2010

Louisiana Tech University's Department of Computer Science and the Center for Secure Cyberspace held the 2010 Cyber Storm Competition on May 7, 2010 at the Louisiana Tech University Student Center. This event provided an exceptional opportunity for students to experience cyber threats in security "first-hand" during a day long "hackfest" where individual students became a part of two teams putting application into practice.

During the competition, two teams were battling against each other in an effort to defend networks, while simultaneously attempting to infiltrate the opponent's domain.   Throughout the event, an administrative team created a diverse state-of-affairs to orchestrate more challenges to the two opposing teams of students.

"Cyber attacks don't just involve home or office computers. They can also hamper our ability to receive quality drinking water, electricity and food." "Today's cyber threats can be very significant," said Dr. Jean Gourd, Assistant Professor of Computer Science at Louisiana Tech. "A sophisticated attacker could attempt to take down our entire infrastructure as happened in Estonia in 2007."

Dr. Gourd developed the Cyber Storm competition coinciding with Tech's 400-level cyber security course, the first of its kind, designed to provided students with practical cyber security experience, while expanding theoretical foundations. Through out the course, students focused on computer network defense and computer network attack.

The course finale gave each student the opportunity to defend, attack, and adapt to cyber threats as they occurred. This opportunity enhanced the ability of all participants to think about security by being active in operating within the cyber domain. This awareness will potentially increase the security of cyberspace, at least from the vantage point of Dr. Jean Gourd, who feels the weakest link in the fight in cyberspace exists between the monitor and the back of the chair. Dr. Gourd has initiated some stability to that link at Louisiana Tech with knowledge, awareness, and education.

CYBER STORM 2010

THE WELCOME MAT

Dr. Rao is a consultant to many industry and research institutes in the State of Texas. His synergism extends in the States of Illinois, Minnesota, and California. And consults for research institutes in Lorea, Malaysia, Thailand, and India.

On April 26, 2010, the Center for Secure Cyberspace welcomed Dr. Kamisetty R. Rao from the University of Texas at Arlington to Louisiana Tech University. Dr. Rao presented his expertise in digital signal and image processing and data compression to faculty, staff, and students at the bi-weekly Multidisciplinary Cyberspace Meeting.

Dr. Rao hold a Bachelor's Degree in Electrical Engineering from the University of Madras, 2 Master's Degrees from the University of Florida, one in Electrical Engineering, and a Ph.D. from the University of New Mexico in Electrical Engineering.

Dr. Rao is a Professor for the College of Engineering for the School of Engineering. He teaches courses in Discrete Signals and Systems, Digital Image Processing, and Multimedia Processing.

The Center for Secure Cyberspace thanks Dr. Rao for visiting with us at Louisiana Tech University. It was our esteemed honor to visit with him, and learn more about his areas of research and expertise.

Center For Secure Cyberspace

Dear Subscriber,

The Spring 2010 edition of the Louisiana Tech University's Center for Secure Cyberspace Newsletter, as well as previous editions of this Newsletter can be viewed on the website under the News&Events section.

You may access the website by entering http://www.csc.latech.edu in your browser address.

Thank you for your continued support.
-The Center for Secure Cyberspace at Louisiana Tech University

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