Dates to Remember

WEDNESDAY LECTURE & NETWORK FORUM

November 18, 2:30-4:00pm

Guest speaker

Dr. Yuliang Zheng—UAB Professor and Chair, Department of Computer and Information Sciences

CFITS VOLUNTEER OPPORTUNITIES

Two hour windows for volunteers! Current HOLLA schedule gives volunteers an opportunity to help out for two hours at a time. Take a break from the daily grind and help out our local school students.

CFITS will host students for :

Scratch the Cat
Tues. 10/13 2nd Grade 10am—Noon

Project Management: Critical Path
Wed. 10/14 5th Grade 10—Noon
Thurs. 10/15 5th Grade 10—Noon

Raspberry Pi: Building FM Radio
Wed. 10/21 8th Grade 10—Noon

Blender 3D 10th—12th Grade
Thurs. 10/22 10am—Noon

Scratch the Cat
Mon. 10/26 2nd Grade 10am—Noon
Tues. 10/27 2nd Grade 10am—Noon

Call the School of Computing Main Office 460-6390 for more information on volunteering.

Quote of the Month

Data security technology underpinning cryptocurrencies has the potential to impact society in such a fundamental manner that will be comparable to what the Internet has brought upon us."

Dr. Yuliang Zheng

Wednesday Lecture & Network Forum

Featuring: Dr. Yuliang Zheng

November 18, 2015, 2:30-4:00pm

University of South Alabama

Shelby Hall, 150 Jaguar Dr., Rm. 2117

November Lecture: The Future of Digital Money

Wednesday Lecture and Network Forum on Information and Cyber Assurance for Computing Professionals

Digital cash has undergone transformational changes over the last few years. We examine cryptographic foundations of digital cash, and discuss the underlying mechanisms of notable schemes ranging from the earliest proposals in the 1980s to the latest implementation such as Bitcoin and Ethereum that are built on one-way hash chains. We investigate limitations of past and current digital cash technology with a view to shedding light on what future digital cash might look like. Finally we discuss applications of distributed consensus protocols that underpin most emerging digital cash systems.

Dr. Yuliang Zheng is widely known as the father of the signcryption technology which is now an ISO international standard for cyber security. His pioneering research in immunizing public key encryption against adaptive attacks has been embodied in a multiple number of industry standards including those from ISO, IEEE and IETF. A prolific researcher with more than 200 refereed publications, Dr. Zheng has been at the forefront of establishing international standards for cryptographic engineering.

He plays an active leadership role in international research communities, co-founding the annual Public Key Cryptography (PKC) conference sponsored by the International Association for Cryptologic Research (IACR) and the annual International Conference on Information Theoretic Security (ICITS). In addition, he serves on the steering committees for a number of research and industrial forums including PKC (Chair of the PKC steering committee since 2007), International Conference on Information Theoretic Security, Information Security Conference, IEEE Security in Storage Workshop and IEEE Information Assurance Standards Committee. Dr. Zheng was invited to serve as an associate editor of The Computer Journal published by the Oxford University Press and as a guest editor for the IEEE Transactions on Information Theory.

Dr. Yuliang Zheng earned his Bachelor's degree in computer science from Nanjing Institute of Technology (renamed Southeast University 1988), Nanjing, China in 1982. He completed his graduate studies at Yokohama National University in Japan, where he earned his master's and PhD degrees both in electrical and computer engineering, in 1988 and 1991 respectively.

After completing his PhD, Dr. Zheng moved to Australia, working at first as a cyber security research scientist at the Australian Defense Force Academy, and then as a professor at the University of Wollongong and Monash University. In 2001, Dr. Zheng was recruited as one of the top 10 international experts in cyber security to join the faculty of University of North Carolina at Charlotte in USA. Since July 2015 he has been with the University of Alabama at Birmingham, serving as the Chair of UAB's Department of Computer and Information Sciences.

Learn more about Dr. Zheng's research and publications: https://cis.uab.edu/yzheng/

#CyberAware

National Cyber Security Awareness Month
October 2015
OUR SHARED RESPONSIBILITY

NCWIT Award for Aspirations in Computing

About National Cyber Security Awareness Month

We now live in a world that is more connected than ever before. The Internet touches almost all aspects of everyone's daily life, whether we realize it or not. We connect with friends and family, conduct business and banking online and rely on many services, like transportation and electricity, that are supported with online systems. Technology has spearheaded advancements in healthcare, education, business, music, government, and many other industries. As technology advances, our lives become easier and more connected. However, being constantly connected brings increased risk of theft, fraud, and abuse. No country, industry, community, or individual is immune to cyber risks. As a nation, we face constant cyber threats against our critical infrastructure and economy. As individuals, cybersecurity risks can threaten our finances, identity, and privacy. Since our way of life depends on critical infrastructure and the digital technology that operates it, cybersecurity is one of our country's most important national security priorities, and we each have a role to play—cybersecurity is a *shared responsibility*.

Recognizing the importance of cybersecurity to our nation, President Obama designated October as **National Cyber Security Awareness Month**. National Cyber Security Awareness Month is designed to engage and educate public and private sector partners through events and initiatives with the goal of raising awareness about cybersecurity and increasing the resiliency of the nation in the event of a cyber incident. National Cyber Security Awareness Month takes place each October and is sponsored by the Department of Homeland Security in cooperation with the National Cyber Security Alliance and the Multi-State Information Sharing and Analysis Center. (http://www.dhs.gov/national-cyber-security-awareness-month)