



14 February 2018

Global Cybersecurity Trends and Practices

(1:10-1:50pm ET)

And

A Scenarios-Based App to Measure Cybersecurity Skills Levels of Non-IT Professionals

(2:00 – 2:40 ET)

Mark your calendar and come join us for CAE Forum! CAE Forum is a live, real-time, online, academic forum where members of the CAE community give non-technical presentations on topics of value to the CAE community. CAE Forum is about sharing your ideas, knowledge, and expertise to empower and strengthen our community. It's that simple. CAE Forum presentations are normally held on the third Wednesday of each month during the Fall and Spring semesters.

Date: Wednesday, February 14, 2018

Time: 1:10-1:50pm ET

Location: <https://caecommunity.zoom.us/my/caeforum>

Just log in as "Guest" and enter your name. No password required.

Title/Topic: Global Cybersecurity Trends and Practices

Audience: Students, Professors, Government, Everyone

Presenter(s): Dr. Terry Thompson, Johns Hopkins University and University of Maryland, Baltimore County

Description:

This presentation covers a range of topics in global cybersecurity and answers questions like:

- When and how did cybersecurity become a topic of global interest?
- Which organizations are the main proponents of global cybersecurity?
- What is Internet governance and why should we care?
- What role does cybersecurity play in critical infrastructure protection?
- What are the main global cyber threats today?
- What about cybercrime, cyber espionage, and cyberwar?

The purpose of the presentation is to raise awareness about how other countries think about and address cybersecurity. While there are many similarities between the U.S. approach and how other countries think about cybersecurity, there are also some important differences. A discussion of these differences helps promote an appreciation of cybersecurity as others see it and provides a broader context for the study of cyber trends and practices in the U.S.

This presentation is based on graduate courses in global cybersecurity taught at Johns Hopkins University and the University of Maryland, Baltimore County. Dr. Terry Thompson has spent the past 15 years as a consultant in cybersecurity. He has worked extensively in the Middle East as well as the U.S., UK, and Southeast Asia. He retired from NSA in 2002 after a career of 30 years in the Federal Government.

Date: Wednesday, February 14, 2018

Time: 2:00 – 2:40 ET

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Title/Topic: A Scenarios-Based App to Measure Cybersecurity Skills Levels of Non-IT Professionals

Audience: Students, Professors, Government, Everyone

Presenter(s): Dr. Yair Levy, Nova Southeastern University and Dr. Melissa Carlton, Florida State University Panama City

Description:

When it comes to the protection of corporate information systems (IS), human errors and social engineering appear to prevail in circumventing IT protections. While most employees may have the best of intentions, without cybersecurity skills they represent the weakest link in an organization's IS security. Skills are defined as the combination of knowledge, experience, and ability to do something well. Cybersecurity skills correspond to the skills surrounding the hardware and software required to execute IS security to mitigate cyberattacks. However, the current measures of end-user cybersecurity skills are based on self-reported surveys or measures of knowledge only. This presentation will report results of a two-year research study that developed an application (app) to measure cybersecurity skills based on actual scenarios with hands-on tasks that permits the participants to demonstrate their skills.

To design a measure that has both high validity and reliability, this research included three phases: (1) a Delphi method approach with a set of subject matter experts (SMEs) from federal agencies and other cybersecurity experts to uncover the set of the top cyber threats, and then uncover the corresponding set of cybersecurity skills; (2) the design and development of the MyCyberSkills™ app using scenario-based, hands-on tasks related to each of the nine SMEs' identified cybersecurity skills; and (3) an assessment of 188 non-IT professionals on their level of cybersecurity skills using the MyCyberSkills™ app (available as iPad app or via <http://cec.nova.edu/~levvy/MyCyberSkills/>). This presentation will report the outcome of all three phases and provide time for open discussion about the research, its implication, along with some ideas for future research.

CAE Forum is also recorded

A recording of the live presentation will be made available for the world to see at the following address:

<https://www.caecommunity.org/cae-forum-resources>

Contact

Contact us at: caeforum@caecommunity.org