



CAE Tech Talk



19 January 2023

The future of physical side-channel analysis: the next decade (1:00 – 1:50 pm EST)

Best Practices in Cybersecurity Pathway Education (2:00 – 2:50 pm EST)

Mark your calendars and come join your friends in the CAE community for a Tech Talk. CAE Tech Talks are free and conducted live in real-time over the Internet so no travel is required. Capitol Technology University (CTU) hosts the presentations using Zoom which employs slides, VOIP, and chat for live interaction. Just log in as “Guest” and enjoy the presentation(s).

Below is a description of the presentations and logistics of attendance:

PRESENTATION #1

Topic: The future of physical side-channel analysis: the next decade

Time: 1:00pm – 1:50 pm EST

Location: <https://captechu.zoom.us/j/664120328>

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

Presenter(s): Aydin Aysu, PhD. North Carolina State University

Description: Physical side-channel analysis has come a long way since its inception in the 90s. Over the past two decades, a number of attacks and related defenses have appeared, resulting in hundreds of academic papers and a multi-billion dollar market. But what is the future of physical side-channel analysis? Will it keep incrementing on the same themes or are there new directions going forward? In this talk, I will give a brief overview of the existing work and then focus on three aspects I believe to be important for the future of physical side-channel analysis: new applications, new devices/targets, and new means to extract the information.

PRESENTATION #2

Topic: Best Practices in Cybersecurity Pathway Education

Time: 2:00pm – 2:50 pm EST

Location: <https://captechu.zoom.us/j/664120328>

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

Presenter(s): Behzad Izadi, Rassoul Alizadeh, Henry Hua, Stephanie Teer, and Sandra Rocha, Cypress College

Description: PACE (Pathway to Advancement in Cybersecurity Education) is a guided Cybersecurity pathway that introduces dual enrollment College courses as early as 9th grade with multiple educational and employment exit points. PACE was funded for the last three years by a grant from the NSF-ATE. We will share our results including outcomes, challenges and best practices. The presentation will be supplemented by interviews and testimonials from various stakeholders (i.e., instructors, students, staff and parents) involved with the PACE project.

CAE Tech Talks are recorded; view them here:

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

For questions on CAE Tech Talk, please send email to CAETechTalk@nsa.gov