



CISSE

November 14, 2022

26th Colloquium - Pedagogy for Cybersecurity

The 2022 conference of the Colloquium on Information Systems Security Education (CISSE) celebrates its 26th year as the senior and premier conference on Cybersecurity Education. Participating in the Colloquium are representatives from education, industry, and government with an interest in conducting productive conversations, present new ideas, and improve the content and curricula for cybersecurity education.



10:30 - 10:40 AM

Overview / Housekeeping

CISSE

Main



Andrew Belon



10:40 - 11:00 AM

Joint Introduction CISSE / CCERP

CISSE



Vic Maconachy



11:00 - 11:50 AM

The Role of Education in Dispelling Myths and Misconceptions in Cybersecurity

CISSE

Main



Eugene Spafford



11:50 AM - 12:05 PM

Break / Community Hangout (15 min)

Break



Dan Likarish



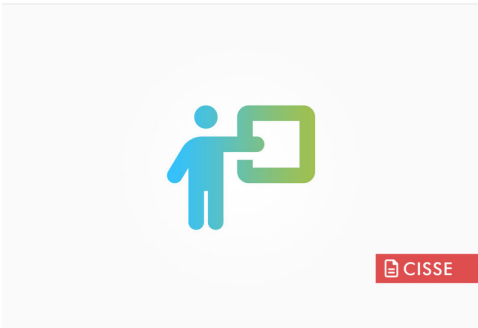
12:05 - 12:30 PM

Interactive Cyber-Physical System Hacking: Engaging Students Early Using Scalextric

CISSE Paper Track 1



Jonathan White



12:05 - 12:30 PM

Structure or Anarchy: A Bibliometric Analysis of Keywords in Cybersecurity Education Literature

CISSE Paper Track 2



Jason Pittman



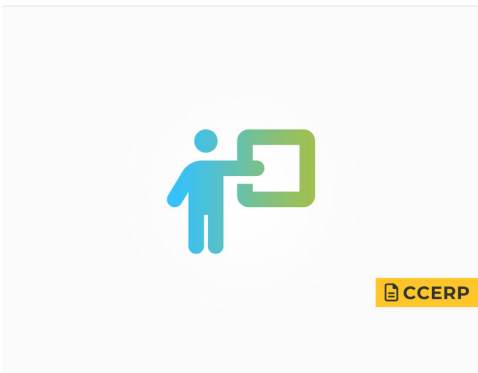
12:05 - 12:30 PM

What You See Is Not What You Know: Deepfake Image Manipulation

CCERP Paper Track 3



Bryson Payne



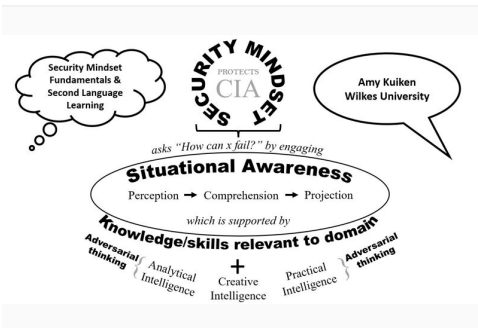
12:30 - 12:50 PM

A Systematic Mapping Study on Gamification Applications for Undergraduate Cybersecurity Education

CCERP Paper Track 3



John Hastings



12:30 - 12:50 PM

Security Mindset Fundamentals and Second Language Learning

CISSE Paper Track 2



Amy Kuiken



12:30 - 12:50 PM

Teaching Offensive and Defensive Cyber Security in Schools using a Raspberry Pi Cyber Range

CISSE

Paper Track 1



Phil Legg



12:50 - 01:05 PM

Break / Community Hangout (15 min)

Break



Andrew Belon



CCERP

01:05 - 01:30 PM

NIDS in Airgapped LANs - Does it Matter?

CCERP

Paper Track 3



Winston Messer



CISSE

01:05 - 01:30 PM

Virginia Cyber Navigator Internship Program (VA-CNIP): Service Learning in Local Election Security

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Paper Track 2



Angela Orebaugh



01:30 - 01:50 PM

CyberAlumni a Cybersecurity Collaboratory

CISSE

Paper Track 2



Alejandro Ayala

Practical Labs for Teaching SDN Security

Souvik Das, Kamil Sarac

Department of Computer Science,
The University of Texas at Dallas,
Dallas TX USA

26th Colloquium on Information Systems Security Education (CISSE)

01:30 - 01:50 PM

Practical Labs for Teaching SDN Security

CISSE

Paper Track 1



Souvik Das



01:30 - 01:50 PM

Towards the Development and Assessment of a Method for Educating Users into Choosing Complex, Memorable Passphrases

CCERP

Paper Track 3



Juan M. Madrid



01:50 - 02:10 PM

An Empirical Study of Password Policy Compliance

CISSE

Paper Track 2



Mary Ann Hoppa



CISSE

01:50 - 02:10 PM

Interactive Program Visualization to Teach Stack Smashing: An Experience Report

CISSE

Paper Track 1



Meera Sridhar



CCERP

01:50 - 02:10 PM

Towards Assessing Organizational Cybersecurity Risks via Remote Workers' Cyberslacking and Their Computer Security Posture

CCERP

Paper Track 3



Ariel Luna



CCERP

02:10 - 02:30 PM

Authentication Based on Periocular Biometrics and Skin Tone

CCERP

Paper Track 3



Clifton Wallace



CISSE

02:10 - 02:30 PM

Low-Cost CTF for Industrial Control Systems Education

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Paper Track 1



Tiffany Fuhrmann



CISSE

02:10 - 02:30 PM

Simulating Cybersecurity Risk Using Advanced Quantitative Risk Assessment Techniques: A Teaching Case Study

CISSE

Paper Track 2



Basil Hamdan



02:30 - 03:05 PM

Lunch / Community Hangout (35 min)

Break



Dan Likarish



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03:05 - 03:30 PM

Election Security and Technology Education

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Paper Track 2



Garry White



CISSE

03:05 - 03:30 PM

Framing Gamification in Undergraduate Cybersecurity Education

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Paper Track 1



John Hastings



CCERP

03:05 - 03:30 PM

Using Experts for Improving Project Cybersecurity Risk Scenarios

CCERP

Paper Track 3



Steven Presley

CYBER-PHYSICAL SHOOTING GALLERY



03:30 - 03:50 PM

Cyber-physical Shooting Gallery: Gamification to Address the IT-OT Gap in Cybersecurity Education

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Paper Track 1



Tiffany Fuhrmann



CCERP

03:30 - 03:50 PM

Social Media Platforms and Responsibility for Disinformation

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Paper Track 3



John-David Rusk



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03:30 - 03:50 PM

Techniques to Overcome Network Attacks (Sybil Attack, Jamming Attack, Timing Attack) in VANET

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Paper Track 2



Sinan Ameen Noman



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03:50 - 04:10 PM

Microtransactions and Gambling in the Video Game Industry

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Paper Track 3



John-David Rusk



CISSE

03:50 - 04:10 PM

Teaching Software Security to Novices With User Friendly Armitage

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Paper Track 1



Christopher Morales



03:50 - 04:30 PM

Program Committee Workshop

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Dan Likarish



CCERP

04:10 - 04:30 PM

Cybercrime in the Developing World

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Paper Track 3



John-David Rusk



04:30 - 04:50 PM

Break / Community Hangout (20 min)

Break



Andrew Belon



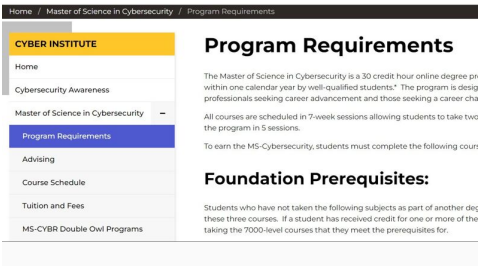
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Improving Workplace and Societal Cybersecurity via Post-Secondary General Education

CISSE Paper Track 1



Maeve Dion



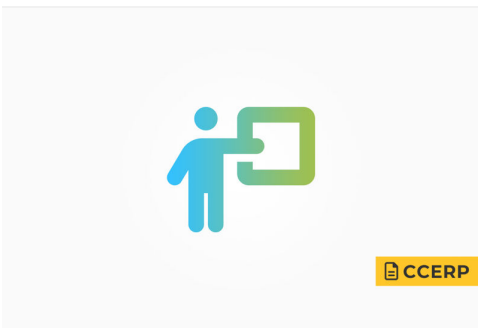
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Meeting the Challenges of Large Online Graduate Cybersecurity Classes in the Age of COVID

CISSE Paper Track 2



Herb Mattord



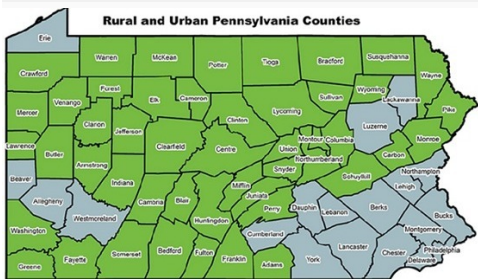
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Secure Cloud-based IoT Water Quality Gathering for Analysis and Visualization

CCERP Paper Track 3



Soin Abdoul Kassif Traore

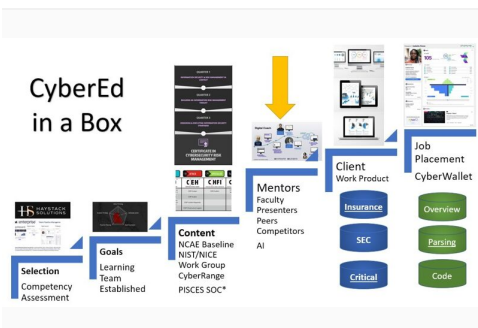


Addressing the Cybersecurity Issues and Needs of Rural Pennsylvania Nonprofit Organizations

CISSE Paper Track 2



Brian Gardner



05:15 - 05:35 PM

Bringing the Industry Partner to the Cybersecurity Education Table as an Active Participant

CISSE Paper Track 1



Ran Hinrichs



05:35 - 05:55 PM

Annual Awards / Closing Remarks

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Vic
Maconachy