Avisnath Prasad and Indira Prasad | NYU and Steven Institute of Technology: “Advancements in Railroad Engineering Transition from Conventional Railroad to Hybrid Maglev Technology”

Justin Smith | Collins Aerospace: “Threat Modeling: An Essential but Practical Exercise – Railway Perspective”


2:00PM - BREAK

2:05 PM - SESSION V: Railway Systems and Infrastructures

SESSION CHAIR: Jeffrey Baca | ENSCO

Nii Attoh – Okine and Ibrahim Balogun | University of Delaware: “Cyber Rail: Use of Blockchain Technology in Rail track Safety and Maintenance”

Avisnath Prasad and Indira Prasad | NYU and Stevens Institute of Technology: “Advancements in Railroad Engineering – Regenerative Braking Systems.”

Avisnath Prasad and Indira Prasad | NYU and Stevens Institute of Technology: “Significance of Suitable + Resilient Infrastructure Systems”

3:05-5:10PM - SESSION VI: Ransomware Scenarios

Sponsored by Department of Technology and Information, State of Delaware, CIO: Mr. James Collins, CSO: Mr Solomon Adote Certificate, Continuous Education Continuing Professional Education Credits | 4 CPEs

5:15PM - CLOSING REMARKS

UNIVERSITY OF DELAWARE | NEWARK, DELAWARE

MARCH 11-12, 2020

Bringing together public, private and international partners to discuss interdisciplinary cybersecurity and resilience strategies across our critical cyber-physical systems

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INTERNATIONAL WORKSHOP ON CYBER-PHYSICAL SYSTEMS AND CYBER-RESILIENCE

DAY 1 — MARCH 11 | 4:30PM – 6:30PM
Pre-Conference Get Together

DAY 2 — MARCH 12 | 7:30AM – 5:15PM

7:30AM - REGISTRATION/BREAKFAST

8:00AM - WELCOME
CONFERENCE CHAIR: Nii Attoh-Okine | Interim Academic Director, University of Delaware, Cybersecurity Initiative: “Workshop Goals and Objectives”

8:10AM - OPENING REMARKS
Charles Riordan | Vice President for Research, Scholarship and Innovation, University of Delaware
Levi Thompson | Elizabeth Inez Kelley Professor of Chemical Engineering, Dean of Engineering, University of Delaware
Kenneth Barner | Charles Black Evans Professor and Chair, Electrical and Computer Engineering, University of Delaware

8:20AM - KEYNOTE SPEAKER
Anton Dahbura | Co-Director, Johns Hopkins University Institute for Assured Autonomy
“Autonomous Systems: What Can Possibly Go Wrong?”

8:50AM
Tetsuya Sakurai | Director, Center for Artificial Intelligence, University of Tsukuba, Tsukuba, Japan: “University of Tsukuba, University of Delaware and John Hopkins NEDO Project”

9:10AM - SESSION I: Cyber-Physical Systems
SESSION CHAIR: Anna Bogdanova | University of Tsukuba, Japan

10:10AM - BREAK

10:15AM - SESSION II: International Perspectives
SESSION CHAIR: Nil Kilicay-Ergin | Penn State
Chinatsu Iha | Japan International Cooperation Agency (JICA): “Japan’s Capacity Building Approaches towards a Free, Fair and Secure Cyberspace in ASEAN Region: The Case in Indonesia”
Leuca Brumarova and Jakub Brumar | VSB – Technical University of Ostrava: “Preparedness of Cyber Security in the Czech Republic”
Darren Wilkins | University of Liberia: “Investigation of the Cybersecurity Aspects of GovNet as a Critical Infrastructure in Liberia”

11:15AM - SESSION III: Cyber Resilience and Risk
SESSION CHAIR: Tetsuya Sakurai | University of Tsukuba, Japan
Ambrose Kam, Arlanda Johnson, Katrina Bergman, and Charles Johnson-Bey | Lockheed Martin: “Quantifying Cyber Resilience”
Solomon Adote | CSO, State of Delaware: “Cyber Risk Management in a highly Targeted Smart City Threat Landscape”
Andrian Barb and Nil Kilicay-Ergin | Penn State: “Knowledge Elicitation Methodology for System Analysis of Privacy Risks in Smart Cities”
Nii Attoh-Okine | University of Delaware: “Blockchain Technology and Digital Delaware-Partnership between State of Delaware and University of Delaware”

12:30 PM - LUNCH & LUNCHEON SPEAKER
Kevin Kornegay | School of Electrical and Computer Engineering, Morgan State University: “Reducing the IoT Cybersecurity Attack Surface”

1:00 PM - SESSION IV: Railway Systems
SESSION CHAIR: Allan Zarembski | University of Delaware
Jeffery Baca, Ruben Pena Bolivar, and Stephen Treanor | ENSCO, Aerospace Science and Engineering Division: “Cybersecurity in Continuous Transportation – Monitoring and Detection”