

November 2018 S²ERC SHOWCASE AGENDA

November 14-15, 2018 • Hosted by Georgetown University • Washington, DC

Tuesday, November 13

7:00-9:00 PM

Meet & Greet Reception – Georgetown University Hotel & Conference Center (GUHCC), South Gallery
Appetizers & Cocktails

Wednesday, November 14

8:00-9:00 AM

Check-in / Poster Session / Breakfast – GUHCC, South Gallery



9:00-9:05

Welcome & Introductions – GUHCC, Salon H
Eric Burger, Research Professor of Computer Science, Georgetown University

9:05-9:25

State of the S²ERC
Wayne Zage, S²ERC Director, Ball State University

9:25-9:35

NSF Presentation
Dmitri Perkins, NSF I/UCRC Program Director

9:35-9:50

Coffee Break – GUHCC, South Gallery



9:50-10:00

LIFE Form & Benefits Survey Instructions – GUHCC, Salon H
Vida Scarpello, I/UCRC Evaluator

10:00-11:20

Session 1: New Proposals

10:00-10:15 *External manipulation of artificial intelligence-based object classifiers*
Ryan Gerdes (presenting), Ming Li; Virginia Tech

10:20-10:35 *The Equivalency Project: Protecting Personal Data in Mobile Applications Operating Under Dissimilar Legal Frameworks*
Eli Tilevich (presenting), Clare Sullivan; Virginia Tech and Georgetown University

10:40-10:55 *Cyber Threat Intelligence Ecosystem*
Tapio Frantti; University of Oulu

11:00-11:15 *Unlocking the Knowledge Embedded in Source Code*
Dolores Zage (presenting), Wayne Zage, Nathan White; Ball State University

11:20-11:50

IAB Meeting – GUHCC, Salon F



12:00-1:00 PM

Lunch Break – GUHCC, Salon G



1:00-1:15

Introducing Brigham Young University – GUHCC, Salon H
Chia-Chi Teng, Associate Professor of Information Technology and Cybersecurity
Brigham Young University

1:15-2:30

Session 2: New Proposals

1:15-1:30 *Cybersecurity risk analysis (and resiliency) for satellites*
Presenter: Daniel Doyle; Pls: Jonathan Black, Kevin Schroeder; Virginia Tech

1:35-1:50 *The Impact of the new E.U. e-Privacy Regulation on International Data Communications*
Clare Sullivan; Georgetown University




1:55-2:10 *Secure Software Engineering*
Pekka Pietikäinen; University of Oulu

2:15-2:25 *A New International Data Protection Legal Compliance Standard*
Clare Sullivan; Georgetown University

2:30-3:00







IAB Meeting – GUHCC, Salon F



3:00-3:15	Coffee Break – GUHCC, South Gallery	
3:15-4:30	<p>Session 3: Status Reports – GUHCC, Salon H</p> <p>3:15-3:25 <i>Bridging the reverse engineering gap from Ada to fUML</i> Huseyin Ergin; Ball State University</p> <p>3:30-3:40 <i>Knowledge Discovery Across Segmented Networks</i> Presenter: M. Raihanul Islam; Pls: Patrick Butler, Naren Ramakrishnan; Virginia Tech</p> <p>3:45-3:55 <i>Code Duplication ++</i> Dolores Zage (presenting), Wayne Zage, Nathan White; Ball State University</p> <p>4:00-4:10 <i>Testing Internet of Things: An Enhanced Combinatorial Testing and Graph-based Technique</i> Eric Wong, University of Texas - Dallas</p> <p>4:15-4:25 <i>Automated and Assurable Security Policy Migration to Software-defined Networking</i> Xin Sun; Ball State University</p>	
4:30-5:00	Closed IAB Meeting – GUHCC, Salon F IAB Members, NSF Representatives, I/UCRC Evaluator	
6:00-9:00	Cocktails & Banquet Dinner – Ristorante Piccolo, 1068 31st Street NW, Washington, DC 20007 Presenter: David Simpson, Rear Admiral (ret.) and Chief of the Public Safety and Homeland Security Bureau	

Thursday, November 15

8:00-8:45 AM	Check-in / Breakfast / Poster Session – GUHCC, South Gallery	 
8:45-9:45	<p>Session 4: Status Reports – GUHCC, Salon H</p> <p>8:45-8:55 <i>Interactive Module Dependency Visualization for Go Language Programs</i> Paul Buis; Ball State University</p> <p>9:00-9:10 <i>How Far Could Mathematics and Rigor Take Us?</i> Lan Lin; Ball State University</p> <p>9:15-9:25 <i>Integrating Modeling to Increase Abstraction in the Code</i> Huseyin Ergin; Ball State University</p> <p>9:30-9:40 <i>PROTECT - exPloring the tRadeOff beTweEn privaCy and uTility</i> Presenter: Tapio Frantti; PI: Ulrico Celentano; University of Oulu</p>	
9:45-10:00	Coffee Break – GUHCC, South Gallery	
10:00-10:30	IAB Meeting – GUHCC, Salon F	
10:30-11:30	<p>Session 5: Status & Final Reports – GUHCC, Salon H</p> <p>10:30-10:40 <i>Improving Software Code Security with Automated Vulnerability Analysis and Inference with Multi-Case Based Reasoning</i> Shaoen Wu; Ball State University</p> <p>10:45-10:55 <i>Survey of Robotic Process Automation (RPA) Security - FINAL</i> Presenter: Pekka Pietikäinen; PI: Teemu Tokola; University of Oulu</p> <p>11:00-11:10 <i>Fingerprinting of GPS Satellites to Detect GPS Spoofing - FINAL</i> Ryan Gerdes (presenting), Bob McGwier, Jeffrey Reed; Virginia Tech</p> <p>11:15-11:25 <i>Cyber Threat Intelligence Information Exchange Ecosystem (CyberISE): Legal Analysis - FINAL</i> Clare Sullivan; Georgetown University</p>	

11:30-12:00	IAB Meeting – GUHCC, Salon F	
12:00-1:00 PM	Lunch Break – GUHCC, Salon G	
1:00-2:15	<p>Session 6: Final Reports – GUHCC, Salon H</p> <p>1:00-1:10 <i>Compiler Tools for Distributed Computing</i> Eli Tilevich; Virginia Tech</p> <p>1:15-1:25 <i>Investigation of Cyborg Datasets for increasing Robustness of Supervised Deep Learning for Spectrum Sensing Applications</i> Lauren Wong (presenting), Chris Headley, Alan Michaels, Vanessa Arndorfer; Virginia Tech</p> <p>1:30-1:40 <i>Building Security In: Fuzzing Web Applications</i> Pekka Pietikäinen; University of Oulu</p> <p>1:45-1:55 <i>Data Protection and the Right to Privacy in the IoT Era</i> Clare Sullivan; Georgetown University</p> <p>2:00-2:10 <i>ICSCSE / Advanced Open Source Virtual Machine Introspection Tools for Malicious Activity Detection and Analysis</i> Presenter: Tapio Frantti; PI: Ville Leppänen; University of Turku</p>	
2:15-2:45	IAB Meeting – GUHCC, Salon F	
2:45-3:30	Coffee Break & Final Poster Session – GUHCC, South Gallery	 
3:30-4:30	<p>Session 7: Final Reports – GUHCC, Salon H</p> <p>3:30-3:40 <i>Empirical Studies to Discover Vulnerability Analysis Patterns</i> Presenter: Joanna Cecilia da Silva Santos; PI: Mehdi Mirakhorli; Rochester Institute of Technology</p> <p>3:45-3:55 <i>Security Management of Connected Lighting Systems and Networks</i> Presenter: Antti Kolehmainen; PI: Marko Helenius; Tampere University of Technology</p> <p>4:00-4:10 <i>The Impact of International Data Protection laws on AI and Deep Learning</i> Clare Sullivan; Georgetown University</p> <p>4:15-4:25 <i>Evaluating the Economic Benefits of NIST's Advanced Encryption</i> Eric Burger; Georgetown University</p>	
4:30-4:40	Closing Remarks Wayne Zage, S ² ERC Director, Ball State University	
4:40-5:40	Final IAB Meeting – GUHCC, Salon F	

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