



S²ERC SHOWCASE AGENDA

May 17 & 18, 2021

Monday, May 17 (US Eastern Daylight Time)	
9:00-9:20	Opening Remarks & State of the Center Lan Lin, S ² ERC Director, Ball State University
Status Reports	
9:20-9:35	<i>Automated Test Case Generation with Deep Learning</i> Noah Ziems, Ball State University (presenting); Shaoen Wu, Illinois State University (PI)
9:35-9:50	<i>Combinatorial Design-based Input Models for Effective Function Testing</i> Linghuan Hu (presenting), Eric Wong, University of Texas – Dallas
9:50-10:05	<i>Visualizing XML Documents in an Object-Oriented Way in fUML</i> Huseyin Ergin, Ball State University
10:05-10:20	<i>Improving the Generality and Robustness of Automated Software Vulnerability Detection with Deep Learning</i> – Noah Ziems, Ball State University (presenting); Shaoen Wu, Illinois State University (PI)
Final Reports	
10:20-10:35	<i>Co-operative Governance Approaches for Blockchain Enabled Distributed Networks</i> [formerly: Collaborative Governance Approach for Blockchain Systems (COOL)] Gabriella Laatikainen (presenting), Pekka Abrahamsson (PI); University of Jyväskylä
10:35-10:50	<i>Automated Red Teaming with Deep Reinforcement Learning</i> (formerly: Autonomous cyber defense systems) Kalle Kujanpää (presenting), Alexander Ilin (PI); Aalto University
10:50-12:00	IAB Meeting

Tuesday, May 18 (US Eastern Daylight Time)	
Final Reports	
9:00-9:15	<i>Modeling and Detecting Threats in Smart Building Ecosystems (formerly: Augmented Analysis: Achieving Situational Awareness in Cyber-Physical Systems with Data Enrichment)</i> Lauri Haverinen (presenting), Teemu Tokola; University of Oulu
9:15-9:30	<i>Next Generation Authentication, Authorization and Accounting for Wireless Roaming (formerly: Secroam)</i> – Bilhanan Silverajan; Tampere University
9:30-9:45	<i>Proof of Concept for the Application of Machine Learning to Educational Data</i> Joni Kultanen (presenting), Pekka Abrahamsson (PI); University of Jyväskylä
9:45-10:00	<i>Security and Visualization of Sigfox Sensor Network (formerly: IoT Space)</i> Hanning Zhao (presenting), Marko Helenius (PI, presenting); Tampere University
10:00-10:15	<i>Crowdsensing Study to Understand Sleep and Smartphone Use (formerly: Profiling User Activity for Security with Ethical Oversight)</i> Vappu Schroderus (presenting); Susanna Pirttikangas, Ella Peltonen (PIs); University of Oulu
10:15-10:30	<i>Binary Software Security Hardening</i> Kevin Hamlen; University of Texas – Dallas
10:30-10:50	Final Remarks Lan Lin, S ² ERC Director, Ball State University
10:50-12:00	Final IAB Meeting