TCCOE Summit Technical Program

May 9-10, 2024

Theme: Current Technology Advances and Modern Software Development

Thursday May 9, 2024	Chair & Time
	Dr. Jason Li
Day One Keynote Dr. Sergey Bratus, Dartmouth University	08:45AM – 09:45AM
Break (15 minutes)	09:45AM – 10:00AM
	Patrick Hurley
Secure Boot Hardware-Software Attestation of Networked Systems, Tom Barnett (DEVCOM/AvMC)/Zachary Clark (DornerWorks)	10:00AM – 10:30AM
Computers don't go to high school, or: Safety and Security Risks Induced by Computer Arithmetic, Thomas Wahl, GrammaTech	10:30AM – 11:00AM
seL4 Ecosystem update, Gernot Heiser & June Andronick, seL4 Foundation	11:00AM – 11:30AM
A Policy-free Kernel for Scalable Multi-core, Bounded Execution, and Verification, Gabriel Parmer, George Washington University	11:30AM – 12:00PM
Lunch (on your own)	12:00PM – 13:30AM
	Dr. Paul Ratazzi
The Benefits of Performing Comprehensive Memory Safety Validation, Trent Jaeger, UC Riverside	13:30PM – 14:00PM
Leveraging Rust in seL4 user space, Nick Spinale, Colias Group, LLC	14:00PM – 14:30PM
Building Security and Resilience on ARM Morello Systems, Eric Hwang, Trusted Science and Technology	14:30PM – 15:00PM
Building Dependable Embedded Systems with Open-Source Components, Kate Stewart, VP Dependable Embedded Systems, The Linux Foundation	15:00PM – 15:30PM
Break (30 Minutes)	15:30PM – 16:00PM
Panel Discussion – Technology Advances and Modern Software Development (Moderator: Ray Richards)	16:00PM – 17:00PM
• Dr. Sergey Bratus, Dartmouth University • Dr. Trent Jaeger, UC Riverside • Ms. Kate Stewart, The Linux Foundation • Dr. Ryan Craven, ONR	
Adjourn for the day	17:00PM

Friday, May 10, 2024	Chair & Time
	Dr. Jason Li

Day Two Keynote Dr. Ryan Craven, ONR	08:45AM – 09:45AM
Break (15 minutes)	09:45AM – 10:00AM
	Todd Carpenter
Expanding AADL Code Generation and Formal Methods Tooling to SysMLv2, Dr. John Hatcliff, Kansas State University	10:00AM – 10:30AM
Enabling Lightweight Secure Containers, Hui Lu, University of Texas at Arlington	10:30AM – 11:00AM
High Assurance Containerization for Multi-Level Security in the Cloud, Dr. Nathan Daughety, AFRL/RIGA	11:00AM – 11:30AM
Learning Environments for Developing Autonomous Cyber Agents, Dr. Daniel Balasubramanian, Vanderbilt University	11:30AM – 12:00PM
Updates from TCCOE, Patrick Hurley, TCCOE	12:00PM – 12:15PM
Closing Remarks (Brad Martin, DARPA; Dr. Paul Ratazzi, Air Force Research Laboratory)	12:15PM - 12:30PM