

## 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	08:45AM - 09:45AM
Dr. Sergey Bratus, Dartmouth University	
Break (15 minutes)	09:45AM – 10:00AM
	Patrick Hurley
TrustZone-Based Attestation Framework for Untrusted Operating Environments, 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	10:30AM – 11:00AM
Computer Arithmetic, Thomas Wahl, GrammaTech	
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,	11:30AM - 12:00PM
Gabriel Parmer, George Washington University	
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Lunch (on your own)	12:00PM - 13:30PM
	Dr. Nathan
The Benefits of Performing Comprehensive Memory Safety Validation, Trent Jaeger,	<b>Daughety</b> 13:30PM – 14:00PM
UC Riverside	13.30FM - 14.00FM
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	15:00PM - 15:30PM
Stewart, VP Dependable Embedded Systems, The Linux Foundation	
Break (30 Minutes)	15:30PM – 16:00PM
Panel Discussion – Technology Advances and Modern Software Development	16:00PM – 17:00PM
(Moderator: Ray Richards)	10.001 WI — 17.001 WI
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	08:45AM - 09:45AM
Dr. Ryan Craven, ONR	
Break (15 minutes)	09:45AM – 10:00AM
	Todd Carpenter
Expanding AADL Code Generation and Formal Methods Tooling to SysMLv2, Dr.	10:00AM - 10:30AM
John Hatcliff, Kansas State University	
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	11:00AM – 11:30AM
Daughety, AFRL/RIGA	
Learning Environments for Developing Autonomous Cyber Agents, Dr. Daniel	11:30AM – 12:00PM
Balasubramanian, Vanderbilt University	
Updates from TCCOE, Patrick Hurley, TCCOE	12:00PM - 12:15PM
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Closing Remarks (Brad Martin, DARPA; Dr. Nathan	12:15PM - 12:30PM
Daughety, Air Force Research Laboratory)	