OCTOBER 20, 2021 (*All times listed in Eastern Time.*)

9:00–9:20 a.m.	**Welcome from the Executive Sponsors** Dr. Jason Cook, *US Army DEVCOM Armaments Center;* Dr. Dinesh Verma, *Executive Director, SERC*
9:20–10:05 a.m.	**KEYNOTE: New Challenges for Systems Engineering: AI Systems in a Human World** Dr. Mica Endsley, *SA Technologies*
10:05–10:45 a.m.	**PRESENTATION – SERC AI Roadmap** Mr. Tom McDermott, *SERC*
10:45–11:45 a.m.	**PANEL: The AI Disruption: The Challenges for Specialty Engineering Posed by AI** Led by Dr. Jason Cook, *US Army DEVCOM Armaments Center*
11:45–12:45 p.m.	**BREAK**

	TRACK 1 V&V OF AI SYSTEMS	TRACK 2 LIFECYCLE ADAPTATION & RESILIENCE
12:45–1:15 p.m.	Test and Evaluation of Reinforcement Learning Dr. Ali Raz, *George Mason University*	Analyzing Cyber Attack Impacts and Defense Strategies Using Machine Learning Mr. Daniel Colvett, *University of Alabama in Huntsville*
1:20–1:50 p.m.	Bringing Reliability, Prognostics, and Testing to Machine Learning Dr. Tyler Cody, *Intelligent Systems Lab, Virginia Tech, Hume Center for National Security and Intelligence*	Using Natural Language Processing to Extract Science Traceability from Mission Concept Documentation Mr. Benjamin Simpson, *Department of Aerospace Engineering, Texas A&M University*
1:55–2:25 p.m.	Concept-of-Operations for Testing AI Systems: Fast-time Emergent Scenario Simulation (FTESS) Dr. Lance Sherry, *Center for Air Transportation Systems Research at George Mason University*	Cognitive Assistance for Problem Formulation in Tradespace Exploration Mr. Gabriel Apaza, *Texas A&M University*
2:30–3:00 p.m.	Discussion and Q&A	Discussion and Q&A
3:00–3:15 p.m.	**BREAK**	
3:15–3:45 p.m.	Systems Theoretic T&E Framework for Learning Based Systems Mr. Paul Wach, *Virginia Tech*	SE4AI: Design of Neural Network Architectures to Support AI and Machine Learning Formalisms Working Side-by-Side as a Team Dr. Mark Blackburn, *Stevens Institute of Technology*
3:50–4:20 p.m.	Towards a Tool for Composing, Evaluating, and Tracking Systems Validation Arguments Dr. Daniel Shapiro, Dr. Bryan Mesmer, *The University of Alabama in Huntsville*	Creating a Digital Twin of an Insider Threat Detection Enterprise Using Model Based Systems Engineering Mr. James Lee, *George Mason University*
4:25–5:05 p.m.	Army Software Suitability Statement Criteria for AI Mr. Adam Hilburn, *US Army ACC-NJ, Picatinny Arsenal*	Identifying Factors of Data Science Expertise and Their Impacts on System Utility Ms. Lydia Gleaves, *The George Washington University*
5:00–5:30 p.m.	Discussion and Q&A	Discussion and Q&A
5:30–5:40 p.m.	**Day 1 Closing** Dr. Peter Beling, *Virginia Tech;* Mr. Albert Stanbury, *US Army DEVCOM Armaments Center*	

OCTOBER 21, 2021   (*All times listed in Eastern Time.*)

9:00–9:15 a.m.	Welcome / Review Workshop Goals Dr. Peter Beling, *Virginia Tech;* Mr. Tom McDermott & Ms. Kara Pepe, *SERC*
9:15–9:45 a.m.	KEYNOTE: Insights on AI and SE Ms. Stephanie Possehl, *Acting Deputy Director for Engineering and Director for Engineering Policy and Systems, OUSD(R&E)*
9:45–10:15 a.m.	Systems Engineering, Artificial Intelligence, and Machine Learning at the Systems Engineering Directorate Mr. Roshan Patel, *US Army DEVCOM Armaments Center*
10:15–11:15 a.m.	PANEL: AI and the Engineering Workforce Led by Mr. Tom McDermott, *SERC*
11:15–12:15 p.m.	BREAK
	TRACK 3 AUGMENTED ENGINEERING
12:15–12:45 p.m.	TEXT2MODEL: A Conceptual Model-Based Knowledge and Intelligence Management System Professor Dov Dori, *Technion, Israel Institute of Technology*
12:50–1:20 p.m.	Using Natural Language Processing (NLP) in Requirement Engineering: Extracting Models From Text Dr. Carlo Lipizzi, *Stevens Institute of Technology*
1:20–1:30 p.m.	BREAK
1:30–2:00 p.m.	Augmented Intelligence for Competitively Bid Proposal Evaluation Dr. Shane Esola, *US Army DEVCOM Armaments Center*
2:05–2:35 p.m.	Creating MBSE Model Content from Non-Standard Sources Mr. Matthew Cotter, *The MITRE Corporation*
2:40–3:10 p.m.	Discussion and Q&A
3:15–3:55 p.m.	Workshop Takeaways and Next Steps Led by Dr. Peter Beling, *Virginia Tech*
4:10–4:15 p.m.	Closing Remarks Dr. Jason Cook, *US Army DEVCOM Armaments Center;* Dr. Dinesh Verma, *Executive Director, SERC*