AI4SE & SE4AI 2023 Agenda
VIRTUAL WORKSHOP

Agenda Times in ET

October 11, 2023 — DAY 1

Time	Session
8:00 PM - 8:10 PM	**INCOSE Welcome** *Tom McDermott, Systems Engineering Research Center, Stevens Institute of Technology*
8:10 PM - 8:40 PM	**Optimizing Systems Engineering Workflows through Novel Application of Large Language Models in Generative Design** *Edward Serzo, Ryan Pykor, Nolan Peterson, System Strategy, Inc.*
8:40 PM - 9:10 PM	**Generative Artificial Intelligence: The Future of Model-Based Systems Engineering** *Thomas Heckwolf, Patrick Buckle, Integration Innovation, Inc. (i3)*
9:10 PM - 9:40 PM	**Demonstration of How to Use AI-Based Tools for Systems Engineers** *Christopher Helmerich, Jared Fuchs, Ian Slamen, Celedon Solutions*
9:40 PM - 10:10 PM	**Balancing the Risk-Opportunity Dilemma in the Design of Autonomous Robotic Systems using an Integrated Data-Driven and Model-Based Approach** *John S. Baras, Erfaun Noorani, Sai Sandeep Damera, Praveen Kumar, University of Maryland*
10:10 PM - 10:40 PM	**Closed Systems Engineering for Artificial Intelligent Systems** *Niloofar Shadab, Tyler Cody, Alejandro Salado, Peter Beling, Virginia Tech*
10:40 PM - 11:10 PM	**Hiring Trained Animals: Generative AI Patterns and Practices for Systems Engineering** *Dr. Barclay Brown, Collins Aerospace*
11:10 PM - 11:40 PM	**An MBSE Led ML Based Approach to Electric Vehicle Design, Development and Virtual Validation** *Aniruddha Mukhopadhyay, Tushar Sambharam, Ankit Adhiya, et. al, Ansys, Inc.*
11:40 PM - 12:00 AM	**Day-1 Wrap-up & Open Discussions**

October 12, 2023 — DAY 2

Time	Session
8:00 AM - 8:10 AM	**INCOSE Welcome** *Ramakrishnan Raman, Honeywell Aerospace*
8:10 AM - 8:40 AM	**Cost-Aware Bayesian Agents for Human-AI Teaming** *Zhenghui Sha, Siyu Chen, University of Texas at Austin*
8:40 AM - 9:10 AM	**SE in the Era of Human-Machine Teaming Roadmap for AI and SE** *Tom McDermott, Systems Engineering Research Center*
9:10 AM - 9:40 AM	**Streamlining Requirement Management with AI** *Michael Jordan, Steven Dam, Lilleigh Stevie, Amir Abrari, SPEC Innovations*
9:40 AM - 10:10 AM	**Application of Machine Learning in Collision Risk Safety Analysis** *John Shortle, Shahab Aref, Jie Xu, et. al, George Mason University*
10:10 AM - 10:40 AM	**Systems Engineering applied to AI in context of Cyber-physical systems** *Robin Yeman, Carnegie Mellon SEI*
10:40 AM - 11:10 AM	**Insights from Multidisciplinary Research on Assessment of AI Systems** *Bryan Mesmer, Kristin Weger, Vineetha Menon et. al, University of Alabama in Huntsville (UAH)*
11:10 AM - 11:40 AM	**Developing Artificial Intelligence in Lunar Operations** *Ronald H. Freeman, Space Operations and Support Technical Committee AIAA*
11:40 AM - 12:00 PM	**Day-2 Wrap-up & Open Discussions**