

Agenda

Day 1 - Thursday, June 6

Dress code: Business Casual

2:15 PM Welcome and Opening Remarks

Daniel Carruth

Associate Director, Center for Advanced Vehicular Systems, Mississippi State University

Bogdan Epureanu

Director, Automotive Research Center, University of Michigan

David Gorsich

Chief Scientist, DEVCOM Ground Vehicle Systems Center

2:30 PM Addressing DoD Challenges in Modeling and Simulation at the Automotive Research Center

Panel discussion with the Automotive Research Center thrust leaders; ARC efforts to address DoD challenges in M&S

Moderator: Daniel Carruth

Panelists

Jon Smereka

Senior Technical Expert, Ground Vehicle Robotics, DEVCOM Ground Vehicle Systems Center

Paramsothy Jayakumar

Senior Technical Expert, Analytics, DEVCOM Ground Vehicle Systems Center

Katie Sebeck

Research Materials Engineer, Materials Application and Integration Team, DEVCOM Ground Vehicle Systems Center

Vamshi Korivi

Technical Expert, Analytics, DEVCOM Ground Vehicle Systems Center

Matt Castanier

Research Mechanical Engineer, DEVCOM Ground Vehicle Systems Center

Steve Rapp

Senior Scientist, Analytics, DEVCOM Ground Vehicle Systems Center

3:30 PM Break

3:45 PM Standards and Interoperability in Modeling and Simulation for Autonomous Ground Vehicles

Discussion of current efforts to support standardization, interoperability and portability of simulations.

Moderator: Mihir Acharya

Panelists

Aaron Prather

Director of Robotics and Autonomous Systems Programs, ASTM International

Karthik Krishnan

Strategist North America, ASAM

Seo-Wook Park

Principal Application Engineer, MathWorks

Rich Romano

Staff Researcher, General Motors

4:45 PM ProjectGL: Lessons from Building a Modular and Extensible Simulation Software Framework

Jason Hogan

Immersive Simulation, DEVCOM Ground Vehicle Systems Center

5:30 PM Networking/Social Event

Day 2 - Friday, June 7

Dress code: Business Casual

8:00 AM Breakfast

9:00 AM Opening Remarks

Daniel Carruth

Mississippi State University

9:05 AM Keynote Speaker: A Practitioner's Perspective on Next Generation Combat Vehicles Models & Simulations

COL Ryan Howell

Chief of Staff, Next-Generation Combat Vehicle Cross Functional Team

9:40 AM Industry Panel

Discussion of industry support for M&S in off-road environments

Moderator: Daniel Carruth

Panelists

Joe Auchter

Lead Engineer, Robotics, Southwest Research Institute (SwRI)

Robert Belle-Isle

Robotics Software Engineer, Neya Systems

Brad Kriel

Technical Program Manager, Duality AI

David Kline

Applied Intuition

10:40 AM Break

Parallel Sessions

10:50 AM Main Room Technical Presentations

Session Chair: Sara Fuller

Verification and Validation of Modeling and Simulation for Autonomous Systems A Case Study for VEET

Peilin Song

Research Mechanical Engineer, USACE Engineer Research and Development Center Geotechnical and Structures Laboratory

Enable Offroad Autonomy using Integrated Simulation with MATLAB and Simulink

Mihir Acharya & Julia Brault

Senior Product Manager & Senior Application Engineer, Mathworks

Modeling & Simulation in Support of the US Army and the DoD – A NAMC Perspective

Col. (Ret.) Warren Sponsler

Chief Operations Officer, The National Advanced Mobility Consortium

10:50 AM Breakouts

Focused roundtable conversations in multiple breakout rooms (limited space available – sign ups on-site) for a moderated group discussion. Each room is assigned a topic area with moderator(s) primed with material to drive discussion. The objective is to achieve equal parts education and idea generation, unpacking recent successes, current challenges, and future of autonomous vehicle simulation.

Breakout Session #1 – Cybersecurity and Communications M&S

Moderator: Daniel Carruth, Mississippi State University

Breakout Session #2 - Simulation Fidelity

Moderator: Chris Goodin, Mississippi State University

Breakout Session #3 - Test Design for Autonomous Ground Vehicles

Moderator: Buhrman Gates, USACE ERDC

11:50 AM Break

12:00 PM Wrap Up

Daniel Carruth

12:10 PM Lunch Reception and Networking

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