

ARTS22 Breakout Session Title:

335-AV Testing & Data Collection

Session Contact/Organizers:

- Chris Schwarz, Director of Engineering & Modeling Research, National Advanced Driving Simulator (Session Contact)
- Jiaqi Ma, Associate Professor, Civil & Environmental Eng., UCLA
- Sky Guo, PhD Student, Civil & Environmental Eng., Texas A&M University
- Guoyuan Wu, Associate Researcher/Adjunct Prof., UC Riverside
- Jeremiah Robertson, Senior Manager, Quantitative Scientific Solutions LLC
- Stephane Dreher, Senior Manager, ERTICO – ITS Europe
- Jia Hu, Professor, Key Laboratory of Road and Traffic Eng., Tongji University

Session Description

This session will present updated efforts to develop shared frameworks for automated vehicle testing and data collections. In contrast to the work of individual companies on proprietary frameworks, research and innovation projects at the scale of federal governments, European Union, and other international organizations are conducted for the benefit of all stakeholders with an eye towards transparency, standardization and homologation. The trilateral working group on automated road transportation is an example of cooperation among the US, EU, and Japan to advance the industry while seeking opportunities for cooperation. This session will update participants with recent developments in shared frameworks for AV testing and data collection.

Goals/Objectives/Outputs

The goals of this session are to present new project updates and results that align with federal and international efforts to develop shared frameworks for AV testing and data collection. Presentations are intended to be more detailed and specific than plenary talks. Specific goals include:

- Offer international perspectives
- Cutting edge program/project updates
- Project developments for the next year
- Inform audience of shared frameworks and open tools

Agenda

Moderator:

Chris Schwarz, Director of Engineering & Modeling Research, National Advanced Driving Simulator, The University of Iowa

Agenda: (Each presentation will last approximately 18 minutes)

Speaker(s)	Presentation Title
Tim Seitz (TRC), Jiaqi Ma(UCLA)	<i>Transportation Research Center, Connected and automated vehicle performance datasets for understanding mixed traffic flow behavior</i>
Xavier Selart (IDIADA)	<i>Safety Validation through HEADSTART and SUNRISE</i>
Stephane Dreher (ERTICO)	<i>Data sharing initiatives in the EU</i>
Kyle Rush & Zhitong Huang (Leidos)	<i>Developing an Open-Source Co-Simulation Tool to Support Development and Deployment of Cooperative Driving Automation Research</i>
Ethan Slattery (Leidos)	<i>VOICES: A Framework for Live, Virtual and Constructive AV Testing</i>