Meeting Minutes

ACS60 Truck and Bus Data Subcommittee

Tuesday, January 10, 2023, 15:30 – 16:45 PM

Location: Marriott Marquis, Mount Vernon Square (M3)

Attendees

Tom Weakley	Tom_weakley@ooida.com
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Steve Vaughn	Steve@prepassalliance.org
John (fmcsa)	

13:30 – 13:40	**Welcome and Introductions**
13:40 – 14:00	**ADS Fleet Implementation Concept of Operations – Data Portal**
	Andrew Krum **Sr. Research Associate** **Virginia Tech Transportation Institute**

Andrew Krum presented a VTTI project, Trucking Fleet Concept of Operations (CONOPS) for Managing Mixed Fleets. This project included eight key sections: 1) Installation and Maintenance Guide for Fleets, 2) Inspection Procedures, 3. Driver State Monitoring Technology and Protocol, 4) Motor Carrier Guide to Insuring Advanced Driver Assistance Systems (ADAS)/Automated Driving Systems (ADS)-Equipped Trucks, 5) Identification of Safety Metrics/Variables, 6) Road Readiness Rating System, 7) Data Security/Transfer Protocol, and 8) Cybersecurity Best Practices.

As part of section 6 (Road Readiness), a new dataset of naturalistic data was collected from an ADS developer. Datasets include ADAS/ADS demonstrations in (1) Port Queuing, (2) Cross-Country, and (3) Exit-to-Exit Operational Design Domains.

The dataverse can be found here:

https://dataverse.vtti.vt.edu/dataset.xhtml?persistentId=doi:10.15787/VTT1/ZYMSEM

14:00 – 14:20   [Update] Data Privacy and Face Deidentification in Naturalistic Driving Data Collections

Abhijit Sarkar
Sr. Research Associate
Virginia Tech Transportation Institute

Abhijit Sarkar provided an update on a deidentification process for naturalistic or driver monitoring systems in which the original driver's face is replaced with another non-specific person (Celebrity, AI generated). The discussion centered around the extension of the masking technology towards the review and release of naturalistic data (such as SHRP2) or other viable applications. Other discussions centered on the shortcomings or limitations of the technology, including camera quality, obstructions (such as sunglasses), or environmental (day vs night, glare, etc.).

14:20 – 14:50   Discussion on Automated Driving System Safety Metrics

Andrew Miller
Sr. Research Associate
Virginia Tech Transportation Institute

Andrew Miller presented briefly on possible metrics to evaluate the safety of automated driving systems (ADS), from RSS and MPrISM model based to more instantaneous kinematic metrics of acceleration and jerk.

14:50 – 15:15   Other discussion/research ideas

Open Mic

Steven Jessberger presented on a potential new dataset using traffic loops to identify the configurations (and beyond) of passing vehicles. More analysis on vehicle identification is pending for the upcoming year.

Jenny Guarino provided an update on the FMCSA Analysis Division work, including the Large Truck Crash Causal Factors study. Other discussions centered around MCMIS and the Compliance, Safety, and Accountability (CSA) scores.