Testing related to automated and connected vehicles the subject of new SAE symposium

Venkat Krovi, Ph.D., Clemson University International Center for Automotive Engineering’s Michelin Endowed Chair in Vehicle Automation, is serving as Executive Program Committee Chair for the conference. He is shown here working speaking with a colleague in a lab at CU-ICAR.

Hosted by Clemson University-International Center for Automotive Research (CU-ICAR), the Automated and Connected Vehicle Systems Testing Symposium will be held June 20-21 in Greenville, S.C. The unique, applied-research event will serve as a forum for discussing and exchanging ideas and methods for validation, benchmarking, and assessment of connected and automated vehicle systems (CAVS) in the presence of uncertainties at the technologies, subsystems, and systems level.

As the increasingly available shared, on-demand mobility continues to transform the global transportation fabric, many companies are looking to accelerate the testing and validation processes needed to deploy CAVS at scale,” said Frank Menchaca, SAE Chief Product Officer. “The mobility industry has invested a significant amount in the
ENGINEERING EVENTS

development of connected and automated vehicle technologies over the past two years. However, before fully automated vehicles can become commonplace, a considerable amount of testing and validation is required to ensure these vehicles safely interact on roadways. The traditional methods of assessment can be time-consuming and costly, and many companies are looking to accelerate the testing and validation process. Data gathered from testing and validation can be used to establish industry standards and update regulations, best practices, and infrastructure.”

Through a series of panels and workshop-like format, attendees will gain a more complete understanding of the complexity of engendered engineering verification and validation; and share and gain insights into new paradigms and reference architectures and consensus-benchmarks with complex computational models and fielded experimental deployments.

“Identifying inhibitors and enablers to bridge the gap from technologies to products is the major focus of the program. A forum to showcase the engineering challenges, the underlying engineering frameworks, systematic down-selection processes; and to discuss engineering validation and benchmarking needs is critical,” said Venkat Krovi, Ph.D., the symposium’s Executive Program Committee Chair and CU-ICAR’s Michelin Endowed Chair in Vehicle Automation. “The symposium will go beyond a set of general presentations into an applications-based discussion of reference-architectures, design- and implementation-choices, detailed/statistical test-results and analyses to assist the industry in establishing priorities for solving problems and creating work groups to solve them.”

Session topics will include:
• Show Me the Money: Monetizing Vehicle Connections
• To err is human. Is your automated vehicle safer than you?
• Safe Automated Vehicles Benchmarking
• To Augment Reality (or Not): A Quintessential Test & Validation Question?
• Testing Centers and Pilots
• Knowledge and Experience Transfer between commercial vehicle and automotive industries
• SAE Automated Vehicle Standards and Initiatives

For more information about the SAE Automated and Connected Vehicle Systems Testing Symposium, or to register, click here. SAE International Members receive a discount on the registration fee. All registration fees include admittance to sessions, scheduled lunches and evening reception, networking breaks, and event presentations where permission has been granted.