

Workshop title

Workshop on Automated Vehicle Safety: Verification, Validation and Transparency

Workshop proposer(s)

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Abstract

Automated Vehicles (AV) are maturing rapidly but safety is still an open problem and we must address the challenge of AV safety together as an industry. With recent traffic incidents involving AVs under test, we believe that is important to address the safety challenges inherent in the technology and help the innovation to move forward. This workshop invites researchers, industry professionals, government officials to discuss, challenge and develop a holistic AV Safety methodology and related practices. We will host presentations around the state-of-the-art work contributing to verification, validation, testing and transparency of AV safety. Such presentations will be complemented with industry and government insights into the challenges and applicability methods to AV safety. Besides the plenary presentations, we will encourage an active dialogue in a panel with Q&A with all the speakers.

Keywords

- Advanced Vehicle Safety Systems

Topics of interest

- Definitions and Metrics of Safety for AV decision making
- Standardization of AV safety – Formal and applied AV safety methods
- Methods for testing, verification, and validation of AV safety
- Safety guarantees between simulation, test tracks, and real world
- AV safety in the era of Machine Learning
- Coverage of AV safety and evidence of safety on AVs
- Naturalistic driving vs safe AV driving trade-offs
- Transparency and education around AV safety
- Sensor model validation for simulation around AV safety
- Handling of uncertainty throughout the AV development process