

CALL FOR PRESENTATIONS

IEEE SA Virtual Workshop: Standards for Trustworthy Autonomous Vehicles - Nurturing the Era of e2e Mobility as a Service (MaaS)

Scope

Highly automated cars will be smart due to computerization and software embedded intelligence. They will communicate with each other and the infrastructure, sense and landscape the surrounding, and maneuver in an ever changing environment according to their capabilities. Drivers will be operators and eventually passengers.

In order to be widely accepted and adopted autonomous vehicles have to be trustworthy, i.e. they have to be safe, secure, reliable, resilient and more. What constitutes trustworthiness depending on circumstances and purpose is not a given in a straight forward manner. Safety has to be secured for connected cars, moreover when they also sense the environment. The risk related to AI-blackbox embedded functionality must be limited, and there are more dependencies to be carefully traded off.

This workshop invites regulators, product managers, engineers and researchers to share their views and make their point on how to ensure trustworthy autonomous vehicles by submitting a proposal for a presentation or talk. The focus should be on industrial challenges, which cannot be solved by a single company, where cooperation is needed.

Challenges and open questions to be addressed in the workshop include but are limited to:

- What are the key constituents of trustworthiness?
- How do these constituents depend on each other?
- What are the most reasonable trade-offs between these constituents?
- What are the major risks and vulnerabilities?
- Are there different evolution paths in Asia, Europe and Americas?
- Do different priorities result from different evolution paths?
- How to identify and prioritize relevant use cases/examples?
- What are the commonalities and differences between Asia, Europe and America?
- What is safe enough, secure enough, ...?
- How to define an appropriate safety case, security case, ...?
- How to test and verify/validate such a safety case, security case, ...?

Please send your proposals to [Axel Deicke](mailto:axel.deicke@gmail.com) - axel.deicke@gmail.com

Accepted presentations will be published and made available for free download from the activity's webpage.

Program Committee

The Workshop is organized by an Industry Connection activity of IEEE Standards Association. For more information please visit

<https://standards.ieee.org/industry-connections/av4maas/index.html>