



Special Session title

3rd Special Session on Solving the Automated Vehicle Safety Assurance Challenge

Special Session proposer(s)

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Abstract

The scientific knowledge and tools for the mass deployment of Automated Vehicles (AVs) are maturing rapidly, as evidenced by recent commercial deployments of AV fleets. But the determination of safety assurances for automated driving vehicles is still one of the most critical challenges in the industry today. Automated transportation is not just a product, but an industry. And it is as industry that we must solve this challenge. While several behavioral safety models for automated driving have been proposed recently and standards discussions are on the way, we still face practical roadblocks in their evaluation, implementation and dissemination. In this special session we invite researchers, automakers, technology companies, and government regulators to come together to develop a holistic understanding and approach to enabling AV Safety. We invite papers that provide contributions to the definition, validation and standardization of AV safety, including methods for the development of metrics, benchmarks and evangelization of Safety Assurances to users and the public. This session continues the open discussion started in 2018 ITSC with the goal of making AV Safety Assurance a reality. In 2019 this session was one of the most concurred and proudly hosted the best paper award. The session will consist of high-quality paper presentations with time for questions and answers from the public.

Keywords

- Advanced Vehicle Safety Systems
- Automated Vehicle Operation, Motion Planning, Navigation
- ITS Policy, Design, Architecture and Standards