FUSE Final Seminar
Safe Autonomous Vehicles
Friday September 23rd, 09:30-16:00, Volvo Cars – PVH

Register at: http://event.semcon.se/FUSE

FUSE Project and Seminar Idea

FUSE is a FFI funded research project in the area of safe autonomous driving. In this seminar some of the main results of the project will be presented. A number of (counter-intuitive) results will be explained, for example:

- Why a self-driving car does NOT need to tell the driver about the actual mode of automation.
- Why high levels of functional safety (ASIL D safety goals) does NOT guarantee few accidents for a self-driving car.
- Why a self-driving car needs to categorise what it does NOT see on the road ahead.

Several research activities outside FUSE in the fields of safety, architecture and autonomous driving will also present related results. The seminar will stimulate discussions between research groups in areas like:

- What responsibility should be put on an autonomous vehicle?
- What are the challenges for the E/E architecture of an autonomous vehicle?
- How to prove that an autonomous vehicle is safe?

PROGRAM

09:00 - 09:30  Registration and coffee

09:30  Welcome  Stig Ursing  Semcon
09:35  FUSE scope, The journey  Rolf Johansson  SP
09:55  Autonomous driving, an outlook  Azra Habibovic  Victoria Swedish ICT
10:10  FFI Project Born To Drive - Autonomous Transport from a logistic perspective today and tomorrow  Malin Veteli  Volvo Logistics
10:20  An overview of the legal situation for self-driving cars  Anders Eugensson  Volvo Cars
10:35  User challenges in autonomous driving  Jan Nilsson  Semcon
10:45  FUSE Safe Transitions of Responsibility in Highly Automated Driving  Martin Kaalhus  Semcon
11:00  FUSE How to make a complete risk of assessment of autonomous vehicles  Fredrik Warg, Jörgen Tryggvesson  SP, Comentor
11:15  FFI Research project ANTWaY  Johan Tofeldt  Volvo AB

11:45 -12.45  Lunch

12:45  Evolving or disrupting E/E architectures for autonomous vehicles?  Martin Törngren  KTH
13:05  ARCHER - Safety and Architecture for Autonomous Heavy Vehicles  Viktor Kaznov  Scania
13:25  Thought on the Future of the Automotive Electronic Architecture  Martin Hiller  Volvo Cars

13:50 - 14:20  Coffee

14:20  A functional safety concept for autonomous cars  Jonas Nilsson  Volvo Cars
14:35  Safety validation of self-driving cars  Daniel Åsljung  Volvo Cars
14:50  From Continuous Integration to Continuous Experimentation for Automated Driving  Christian Berger  Göteborgs Universitet
15:10  Correctness and Completeness in Requirement Engineering  Jörgen Tryggvesson, Anders Werneman  Comentor, Qamcom
15:25  Don’t believe what you read on Internet: Why self-driving cars don’t have to choose whom to kill  Rolf Johansson  SP
15:50  Summing up  Stig Ursing  Semcon

End of seminar

Contact
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www.fuse-project.se