

# FUSE Final Seminar

## Safe Autonomous Vehicles

Friday September 23rd, 09:30-16:00, Volvo Cars – PVH

<https://goo.gl/maps/Jfbvh17cxVB2>

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

Registration and coffee at PVH from 09:00

Coffee and lunch is included in the seminar and sponsored by Volvo Cars.

### 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

<b>09:00 - 09:30</b>	<b>Registration and coffee</b>		
09:30	<b>Welcome</b>	<i>Stig Ursing</i>	Semcon
09:35	<b>FUSE scope, The journey</b>	<i>Rolf Johansson</i>	SP
09:55	<b>Autonomous driving, an outlook</b>	<i>Azra Habibovic</i>	Victoria Swedish ICT
10:10	<b>FFI Project Born To Drive - Autonomous Transport from a logistic perspective today and tomorrow</b>	<i>Malin Veteli</i>	Volvo Logistics
10:20	<b>An overview of the legal situation for self-driving cars</b>	<i>Anders Eugensson</i>	Volvo Cars
10:35	<b>User challenges in autonomous driving</b>	<i>Jan Nilsson</i>	Semcon
10:45	<b>FUSE Safe Transitions of Responsibility in Highly Automated Driving</b>	<i>Martin Kaalhus</i>	Semcon
11:00	<b>FUSE How to make a complete risk of assessment of autonomous vehicles</b>	<i>Fredrik Warg, Jörgen Tryggvesson</i>	SP, Comentor
11:15	<b>FFI Research project ANTWaY</b>	<i>Johan Tofeldt</i>	Volvo AB
<b>11:45 - 12.45</b>	<b>Lunch</b>		
12:45	<b>Evolving or disrupting E/E architectures for autonomous vehicles?</b>	<i>Martin Törngren</i>	KTH
13:05	<b>ARCHER - Safety and Architecture for Autonomous Heavy Vehicles</b>	<i>Viktor Kaznov</i>	Scania
13:25	<b>Thought on the Future of the Automotive Electronic Architecture</b>	<i>Martin Hiller</i>	Volvo Cars
<b>13:50 - 14:20</b>	<b>Coffee</b>		
14:20	<b>A functional safety concept for autonomous cars</b>	<i>Jonas Nilsson</i>	Volvo Cars
14:35	<b>Safety validation of self-driving cars</b>	<i>Daniel Åsljung</i>	Volvo Cars
14:50	<b>From Continuous Integration to Continuous Experimentation for Automated Driving</b>	<i>Christian Berger</i>	Göteborgs Universitet
15:10	<b>Correctness and Completeness in Requirement Engineering</b>	<i>Jörgen tryggvesson, Anders Werneman</i>	Comentor, Qamcom
15:25	<b>Don't believe what you read on Internet: Why self-driving cars don't have to choose whom to kill</b>	<i>Rolf Johansson</i>	SP
15:50	<b>Summing up</b>	<i>Stig Ursing</i>	Semcon
<b>16:00</b>	<b>End of seminar</b>		

### Contact

[stig.ursing@semcon.se](mailto:stig.ursing@semcon.se) – seminar organizer

[jonas.nilsson@volvocars.com](mailto:jonas.nilsson@volvocars.com) – seminar host

[rolf.johansson@sp.se](mailto:rolf.johansson@sp.se) – FUSE project coordinator

[www.fuse-project.se](http://www.fuse-project.se)



**SEMCON**



**qamcom**

