



Systems, Software and Safety 2016

System and software safety in electronic systems is becoming increasingly central in many industries. The systems become ever more complex, connected and autonomous — and the software continues to grow. Some industries are quite mature in the handling of safety, whereas others have only recently started their safety journey.

The Scandinavian conference on safety critical systems and software has become a central meeting place for Scandinavian safety experts from different industries. It is an opportunity to share experiences and make new contacts. There will be an overview day followed by a day of parallel workshops about different challenges, techniques, standards and methods. In the workshops there is a mix of new presentations and follow up discussions of presentations from day 1 led by a moderator.

At the end of the first day there is conference dinner with opportunities to establish further contacts among the participants.

Warm Welcome!

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TIME 16-17 March 2016

PLACE Spårvagnshallarna, Stockholm

ORGANIZERS Addalot Consulting AB
 KTH and ICES

COST (excl. VAT):

Two days*	3300:-
Only Day 1*	1900:-
Only Day 2	1400:-

*Conference dinner is included.

Final registration: 11 March

Full program and registration

<http://safety.addalot.se/>

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 Innovative Centre for Embedded Systems



Wednesday March 16

Time	Content	Presenter
08:00-09:00	Registration and coffee	
09:00-09:10	Welcome and introduction	Nicolas Martin-Vivaldi/Martin Törngren
09:10-10:10	Keynote: Safety and autonomy	Jonas Nilsson, Volvo Cars
10:10-10:30	Coffee	
10:30-11:05	Automotive Industry Approach to Functional Safety	Fredrik Törner, Volvo Cars
11:05-11:40	Expert vs. layman in risk assessment	Tor Stålhane, NTNU
11:40-12:40	Lunch	
12:40-13:40	Keynote: Fundamental Principles of Software Safety Assurance	Prof. Tim Kelly, Univ. of York
13:40-14:15	Traceability in agile development	Even-André Karlsson, Addalot
14:15-14:50	Lessons learned: Introducing safety in organizations	Dr. Henrik Thane, Safety Integrity AB
14:50-15:15	Coffee	
15:15-15:50	Automating safety engineering with model-based techniques	Juha-Pekka Tolvanen, MetaCase
15:50-16:25	Software complexity metrics in general and in the context of ISO 26262 software verification requirements	Mirosław Staron, Chalmers / University of Gothenburg
16:25-17:00	To be safe you need to be secure	Hans Hansson, SICS Västerås

Thursday March 17

Morning workshops (08:30-12:00)

<p>Modelling for Safety critical systems Using Domain-Specific Modelling for Design and Verification of Cyber Physical Systems, Juha-Pekka Tolvanen, MetaCase Automating safety engineering with model-based techniques, Juha-Pekka Tolvanen AUTO-CAAS: Model-Based Fault Prediction and Diagnosis of Automotive Software, Mohammad Mousavi, Halmstad University QuickCheck your simulations! John Hughes, Quviq AB/Chalmers</p>	<p>Combining safety and other disciplines Reconciling the ISO 26262-compliant and the agile documentation/process management in the Swedish context, Barbara Gallina, MDH Traceability in agile development, Even-André Karlsson, Addalot To be safe you need to be secure, Hans Hansson, SICS Västerås Benefits of Security-informed Safety-oriented Process Lines, Barbara Gallina, MDH Functional safety vs customer satisfaction, Tord Wullt, Addalot</p>	<p>Analysis techniques for Safety Systems A Comprehensive Safety Engineering Approach for Software-Intensive Systems Based on STPA, Stefan Wagner, University of Stuttgart How to use generic information to get an early start on safety analysis, Tor Stålhane, NTNU Software complexity metrics in general and in the context of ISO 26262 software verification requirements, Mirosław Staron, Chalmers / University of Gothenburg Expert vs. layman in risk assessment, Tor Stålhane</p>
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Afternoon workshops (13:00-17:00)

<p>RunTime versus Design-Time Analysis of Safety in System-of-Systems Going from ensuring safety entirely at design-time, to improving efficiency by additional safety measures at run-time: possibility or pitfall? Pernilla Ulfvengren, Lars Svensson and Fredrik Asplund, KTH, Tim Kelly, University of York, Jeremie Guiochet, LAAS-CNRS/ University of Toulouse</p>	<p>Technical support for safety critical systems Virtualization as a means to isolate applications of different criticality in a multicore system, Joakim Nilsson, Nohau Solutions AB Deterministic Ethernet for Safety-Critical Applications, Paul Pop, Technical University of Denmark Khronos Open Standard APIs for Safety Critical Applications, Erik Noreke, Khronos Group</p>	<p>Managing safety development ISO 26262 Supplier management, Tord Wullt, Addalot Automotive Industry Approach to Functional Safety, Fredrik Törner, Volvo Cars Planning for Safety Demonstration, Vikash Katta, Institute for Energy Technology, Norway Lessons learned: Introducing safety in organizations, Dr. Henrik Thane, Safety Integrity AB</p>
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Tor Stålhane
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Tim Kelly
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