



Systems, Software and Safety 2017

System and software safety in electronic systems is becoming increasingly central in many industries and indeed as part of often critical societal infrastructure. The systems become ever more complex, connected and autonomous — and the software continues to grow. Some stakeholders 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 industry, public and academic organizations. It is an opportunity to share experiences and make new contacts. The conference features a first day with overview presentations, followed by a day of parallel workshops about different challenges, techniques, standards and methods. In the workshops there will be 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 22-23 May 2017

PLACE Spårvagnshallarna, Stockholm

ORGANIZERS Addalot Consulting AB,
 KTH and ICES

COST (excl. VAT): **Early bird**** **Late**

Two days*	3300:-	3950:-
Only Day 1*	1900:-	2300:-
Only Day 2	1400:-	1700:-

*Conference dinner is included.

**Early bird price before 17 March

Final registration: 15 May

Full program and registration

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

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 Innovative Centre for Embedded Systems

Version 170116

Monday 22 May - Plenary day

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: Engineering Safety and Security in the era of the Industrial Internet of Things	Dr Robert Oates, Rolls-Royce
10:10-10:30	Coffee	
10:30-11:05	Requirements specification tool for safety critical systems based upon Linked Data	Prof. Mattias Nyberg, Scania
11:05-11:40	Agility and Resilience	Tor Stålhane, NTNU
11:40-12:40	Lunch	
12:40-13:40	Keynote: Safety of digital health technologies	Prof. Farah Magrabi, Macquarie University, Australia
13:40-14:15	Documenting the architecture	Even-André Karlsson, Addalot
14:15-14:50	Lessons learned: How to write good safety plans	Dr. Henrik Thane, Safety Integrity AB
14:50-15:15	Coffee	
15:15-15:50	Updated FMV handbook on Safety Critical Software	Björn Koberstein, FMV
15:50-16:25	Bridging Functional Safety Analysis and Software Architecture Assessment	Mirosław Staron, Chalmers / University of Gothenburg
16:25-17:00	Challenges for ensuring functional safety for connected autonomous vehicles	Fredrik Warg, RISE Research Institutes of Sweden



Nicolas Martin-Vivaldi
Addalot Consulting

Martin Törngren
KTH



Robert Oates
Rolls-Royce

Mattias Nyberg
Scania



Tor Stålhane
NTNU

Farah Magrabi
Macquarie University
Australia



Tuesday 23 May - Parallel workshops 08:30-17:00

<p>Techniques for safety development Prof. Mattias Nyberg: Requirements specification tool for safety critical systems based upon Linked Data, Henrik Thane: Lessons learned: How to write good safety plans, Jingyue Li: Safety and security analysis using STPA, Vikash Katta: Using traceability information for building safety cases Lunch 12:00 - 13:00</p>	<p>Cooperative functions in safety-critical System-of-Systems scenarios Hans Hansson: Introduction, Irfan Slijvo: Facing design and assurance challenges of security-informed safety-critical vehicle platoons via FLAR2SAF, Ileana Cerasani: CO-CPS: A sample XSTAMPP usage in V2I traffic management scenario based on STAMP model Break 10:30 - 11:00</p>	<p>Where are the Safety Standards going? Barbara Gallina: Towards an ISO 26262-compliant OSLC-based Tool Chain Enabling Continuous Self-assessment, Illya Rudkin: Standardizing Technologies for Safety Critical Systems, Even-André Karlsson: Comparing 26262 and ASPICE, Andrzej Wardzinski: Managing safety case relations to system models, Björn Koberstein: Updated FMV handbook on Safety Critical Software Lunch 12:00 - 13:00</p>
<p>Combining Agile and Safety Interactive workshop where the challenges with combining Safety and Agile methods will be discussed Workshop will be facilitated by Tor Stålhane and Nicolas Martin-Vivaldi</p>	<p>Safety and software architectures Ilya Verbitskiy: Architectural Risk Analysis, Mohammad Mousavi: Safety Analysis of Automotive Software: From Functional Safety to Component Testing, Even-André Karlsson: Documenting the architecture, Andreas Platschek: An Approach to Performing a Layers of Protection Analysis for Complex Software, Nicholas Mc Guire: Diversity Approaches Investigated for the SIL2LinuxMP Architecture, Mirosław Staron: Bridging Functional Safety Analysis and Software Architecture Assessment -- Safety scenarios in Architecture Trade-off Analysis Method (ATAM), Alex Wilson: Use of COTS OS with Lock Step for Rail Safety, Joakim Strandberg: Ada 2012 and SPARK 2014</p>	<p>Architecture and Safety for Autonomous Systems Masoumeh Parseh: From hazard analysis to verification, real and imagined gaps when preparing for autonomy in the automotive domain, John Birch: Safety Assurance Argument Strategies for Vehicle Autonomy, Martin Törngren and Viktor Kaznov: Architecting and safety of autonomous vehicles - preliminary findings from the Archer project, Naveen Mohan: ATRIUM: Design method for architecting under uncertain information, Fredrik Warg: Challenges for ensuring functional safety for connected autonomous vehicles</p>



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