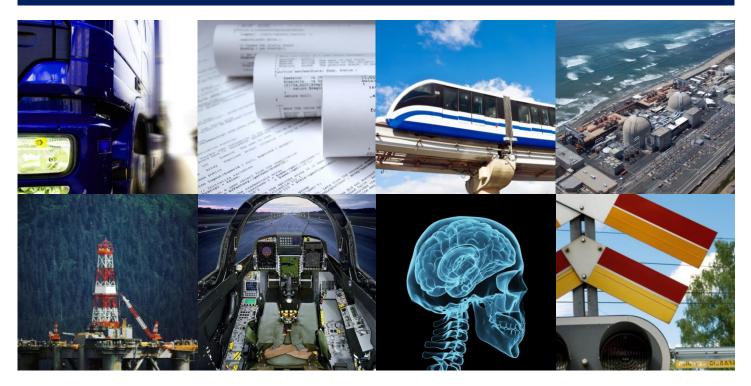
## 7<sup>th</sup> Scandinavian Conference on System and Software Safety

### 22-23 October, Stockholm



# Systems, Software and Safety 2019

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. This poses many challenges even for mature organizations, requiring approaches that go beyond established best practices.

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 distinguished keynotes, industrial and research presentations, followed by a second day of parallel workshops, advanced presentations and tutorials about different challenges, techniques, standards and methods. At the end of the first day the conference dinner provides opportunities to establish further contacts among the participants.

Warm Welcome!

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www.addalot.se

www.ices.kth.se

TIME 22-23 October 2019

PLACE Spårvagnshallarna, Stockholm

**ORGANIZERS** Addalot Consulting AB, KTH and ICES

COST (excl. VAT):	Early bird**	Late
Two days*	3500:-	4200:-
Only Day 1*	2000:-	2400:-
Only Day 2	1500:-	1800:-

\*Conference dinner is included. \*\*Early bird price before

**15 September (extended)** Student discount : 50%

Final registration: 15 October

Full program and registration

http://safety.addalot.se/





First version 190616

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Time	Content	Presenter
08:30-09:00	Registration and coffee	
09:00-09:15	Welcome and introduction	Nicolas Martin-Vivaldi/ Martin Törngren
09:15-10:15	Keynote: System Lifecycle Operational Governance	Nick McDonald Trinity College Dublin
10:15-10:40	Coffee	
10:40-11:20	Is the actual safety of E/E systems in automotive vehicles generally known?	Carl Bondesson, Scania
11:20-12:00	Safety cage : an approach for safe machine learning systems	Sankar Raman Sathyamoorthy, QRTECH AE
12:00-13:00	Lunch	
13:00-14:00	Keynote: System safety principles from 1999; challenges for 2019?	Dr David Pumfrey, University of York
14:00-14:35	Conflict as Software Levels Diversify	Fredrik Asplund, KTH
14:35-15:00	Coffee	
15:00-15:40	CCPE - A methodology for predicting mismatches in human-machine interaction	Lars-Ola Bligård, Chalmers University of Technology
15:40-16:20	Safety management - practice and compliance in safety critical product development and service production	Pernilla Ulfvengren, KTH
16:20-17:00	The challenges for today's functional safety engineer - A view based on railway, automotive and machinery industry	Yin Chen, Combitech



# Tuesday 23 October - Parallel tracks 08:30-17:00

			Dr David Pumfrey
Presentations:	Workshop: System Lifecycle	Tutorial/Workshop	University of York
Hazard Analysis of a Fleet of	Operational Governance, Nick	ISO 26262 – overview	
Autonomous Machine using STPA	McDonald, Fredrik Asplund, Pernilla	and challenges –	
<ul> <li>A Case Study, Stephan</li> </ul>	Ulfvengren	Even-André Karlsson,	
Baumgart, Volvo Construction	What principles should inform system	Addalot	Fredrik Asplu KTH
Equipment AB, MDH	lifecycle governance? Theory often	In this tutorial/	
<ul> <li>Preventing Omission of Key</li> </ul>	defines problems as insoluble; yet,	workshop we will give	
Evidence Fallacy in Process-based	pragmatic solutions are needed. A	an overview of ISO	
Argumentations, Barbara Gallina,	discussion will be structured around	26262 with some	
MDH	five interlinked challenges:	practical experiences.	Lars-Ola Bligård
<ul> <li>Facilitating Automated</li> </ul>	1.Understanding system performance	The workshop will be	Chalmers
Compliance Checking of	2.The reliability of change	interactive, where we	
Processes against Safety	3.Strategic management of operational	expect the	
Standards, Julieth Patricia	risk	participants to bring	Pernilla Ulfve
Castellanos Ardila, MDH	4. Design for operations	their experience and	KTH
• Variant Management and Change	5.Governance based on evidence	challenges for	
Impact Analysis in Safety-	Underlying each is are contradictions to	discussion.	
oriented Process-Product Lines,	be overcome through the collective		
Barbara Gallina, MDH	experience of the participants.		Yin Chen
Workshop: System safety	Workshop: Design of dependable	Tutorial/Workshop	Combitech
principles from 1999; challenges	systems – fundamentals of Aircraft	ASPICE- overview and	
for 2019? David Pumfrey, Martin	safety	challenges – Nicolas	
Törngren, Stefan Norrwing	Kristina Forsberg and Håkan Forsberg,	Martin Vivaldi,	
In this workshop we will discuss in	SAAB and MDH	Addalot	
more detail David's 9 principles	We address requirements and	In this tutorial/	addalo
and 2 new analysis methods. We	responsibilities in the aviation industry,	workshop we will give	auuai
will describe how they have been	e.g. EASA certification specifications	an overview of ASPICE	QUALITY IMPROVE
used, and also discuss their	CS25.1309 and acceptable means of	with some practical	
applicability for new challenges	compliance AMC 25.1309 for large	experiences. The	
that more complex systems face,	airplanes. Who is responsible to assess	workshop will be	
e.g. autonomy, AI, connected	that correct level of safety is achieved?	interactive, where we	
systems, and systems of systems.	Both process and design assurance are	expect participants to	Innovative Centre for Embedded Systems
The workshop will be interactive	addressed.	bring their experience	
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involving participants to share experience and challenges.	The workshop will discuss the reported unsafe condition of Boeing 737 MAX.	and challenges for discussion.	