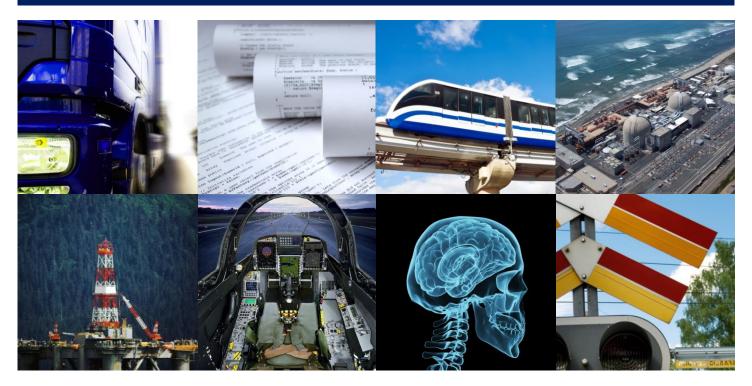
7th Scandinavian Conference on System and Software Safety

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

TIME 22-23 October 2019

PLACE Spårvagnshallarna, Stockholm

ORGANIZERS Addalot Consulting AB, KTH and ICES

Early bird**	Late
3500:-	4200:-
2000:-	2400:-
1500:-	1800:-
	2000:-

*Conference dinner is included. **Early bird price before 15 August Student discount : 50%

Final registration: 15 October

Full program and registration

http://safety.addalot.se/





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Monday 22 October

Plenary d	ay
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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	Carl Bondesson, Scania
	vehicles generally known?	
11:20-12:00	Safety cage : an approach for safe machine learning	Sankar Raman
	systems	Sathyamoorthy, QRTECH AB
12:00-13:00	Lunch	
13:00-14:00	Keynote: System safety principles from 1999;	Dr David Pumfrey,
	challenges for 2019?	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	Lars-Ola Bligård, Chalmers
	human-machine interaction	University of Technology
15:40-16:20	Safety management - practice and compliance in safety	Pernilla Ulfvengren, KTH
	critical product development and service production	
16:20-17:00	The challenges for today's functional safety engineer	Yin Chen, Combitech
	- A view based on railway, automotive and machinery	
	industry	



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

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