



Systems, Software and Safety 2023

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 one and a half day with distinguished keynotes, industrial and research presentations, followed by seminar/tutorial by Nancy Leveson the second day. In the evening of the first day there is a conference dinner to meet old friends and establish new contacts.

Warm welcome to the conference, this year in Stockholm.

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Time: 21-22 November 2023

Place: KTH, Teknikringen 1 (Tuesday)
and Lustikulla, Liljeholmsvägen 8
(Wednesday) Stockholm

Organizers: Addalot Consulting AB,
SAFER/Chalmers, KTH and ICES

Cost (excl. VAT): Early bird* Late
Standard 1995:- 2995:-

Social dinner 21/11: 550 :-

*Early bird price before October 6

Final registration: 15 November

Full program and registration:

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

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VEHICLE AND TRAFFIC SAFETY CENTRE AT CHALMERS

Tuesday 21 November

Time	Content	Presenter
09:30-10:15	Registration and coffee	
10:15-10:30	Welcome and introduction	Organizers
10:30-11:45	Keynote: The Need for a new Paradigm in System Safety Engineering	Nancy Leveson, MIT
11:45-12:45	Lunch	
12:45-13:45	Keynote: Assuring the ethics of AI and autonomous systems	Ibrahim Habli, York University
13:45-14:20	How to use out-of-distribution detection method to argue AI/ML-based components into a safety lifecycle and related safety argument	Murat Erdogan, Veoneer
14:55-15:10	Coffee	
15:10-15:45	Assurance of Software-Intensive Medical Devices: What About Mental Harm?	Barbara Gallina, Mälardalen University
15:45-16:20	Holistic approach for streamlined vehicle FuSa and CS engineering	William Zeng, Roben Automotive
16:20-16:55	Analyses of the interplay between safety and security attributes in connected computer systems	Behrooz Sangchoolie, RISE
17:20	Dinner	



Nancy Leveson



Ibrahim Habli



Murat Erdogan



Barbara Gallina



William Zeng



Behrooz Sangchoolie

Wednesday 22 November

Time	Content	Presenter
08:30-09:30	Keynote: The future of System Safety – how to apply HTO (Human-Technology- Organization)	Lena Kecklund, MTO
09:30-10:05	Use of Truth Table principle to model the emergency brake function at train level	Philippe Cozzarin, ALSTOM RSC
10:05-10:40	Collective Perception- Wild Animal Info Sharing	Zehra Adil, Veoneer
10:40-10:55	Coffee	
10:55-16:30 Lunch 12:00 Coffee 14:45	Tutorial: An Introduction to STPA and CAST CAST is a new accident analysis method that helps to better understand why an accident occurred and how to prevent future accidents related to the same systemic factors. In contrast, STPA is a proactive tool that identifies scenarios leading to accidents before they occur. Information obtained to assist in preventing or mitigating losses. While there is not enough time to teach how to perform STPA and CAST in this tutorial, I will provide an introduction to them and enough information that you should be able to get started in applying these new safety engineering tools.	Nancy Leveson, MIT



Lena Kecklund



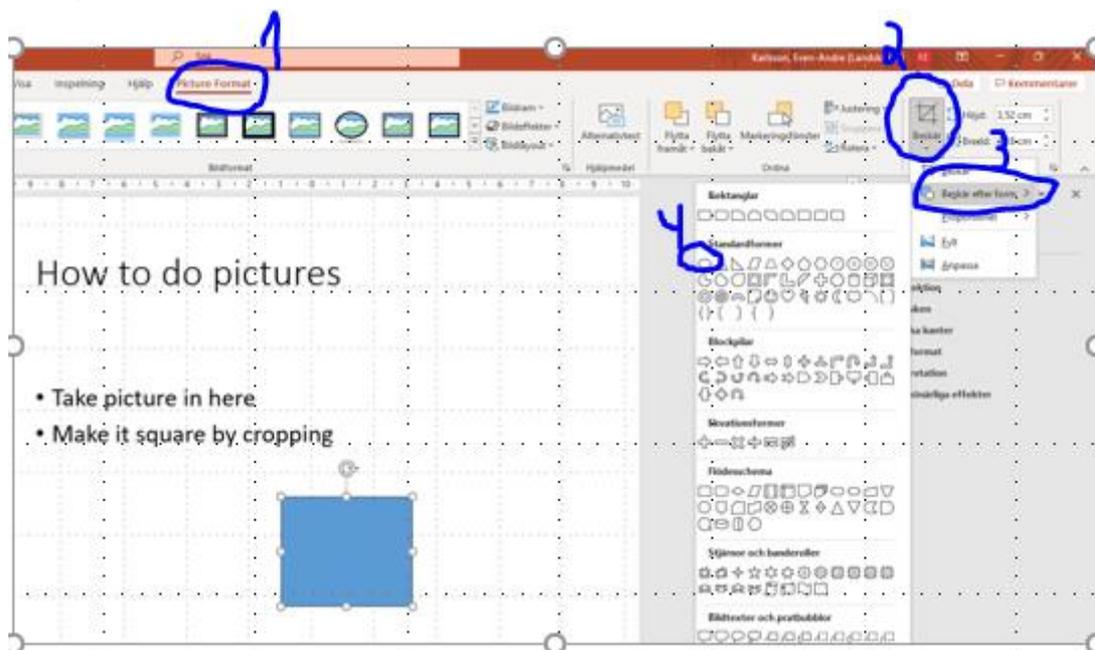
Philippe Cozzarin



Zehra Adil

How to do pictures

- Take picture in to ppt
- Make it square by cropping
- Crop by form to circle



- Add nice black border