



Second European STAMP Workshop

Welcome!

Stefan Wagner
Institute of Software Technology

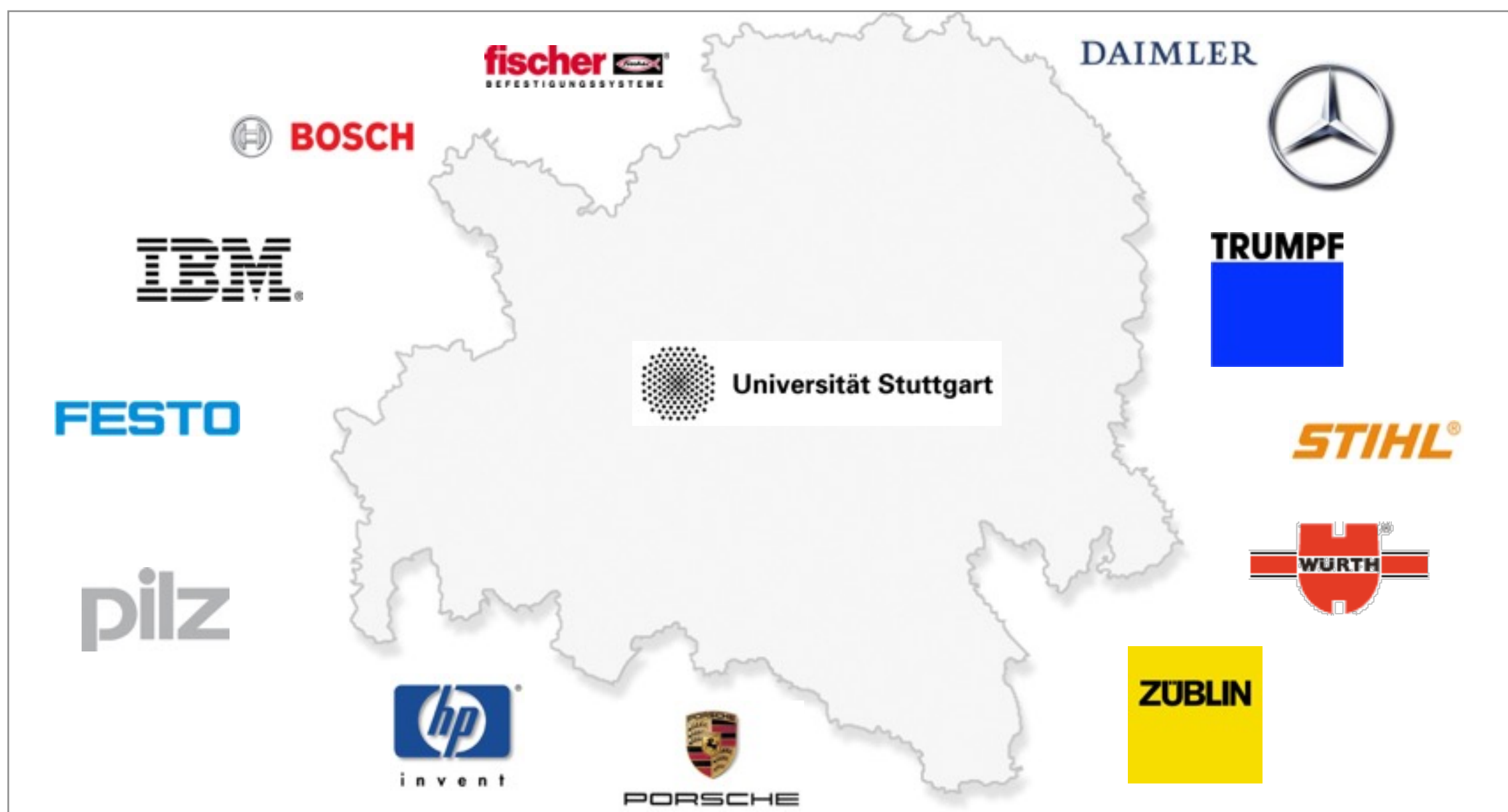
22. September 2014





**Baden-
Württemberg**

One of the strongest commercial regions in Europe

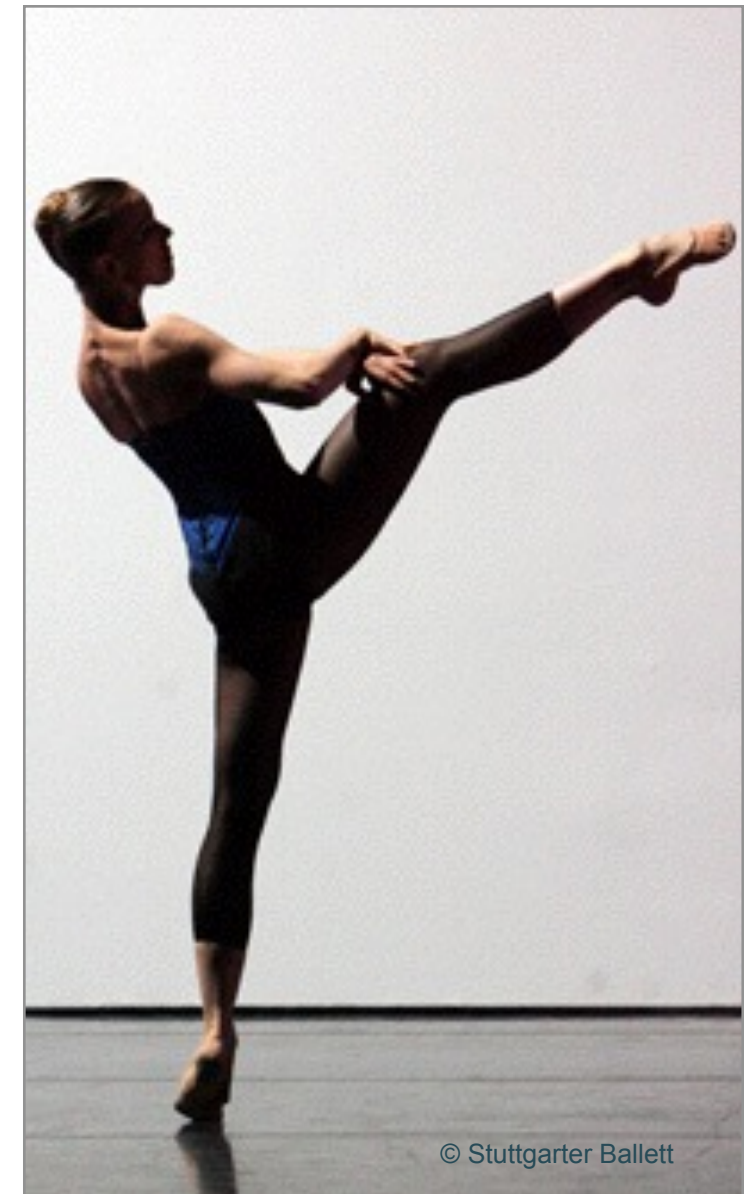


Stuttgart – a historical city

Cultural highlights

The capital of Baden-Württemberg, with its 590,000 inhabitants, has a lot to offer:

- The opera, often awarded with „Best Opera of the Year“
- The famous Stuttgart Ballett
- The biggest zoological-botanical garden of Europe, the Wilhelma
- The castles of the former kings of Württemberg
- Europes second largest mineral water sources
- Museums: Daimler, Porsche, ethnology,



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University of Stuttgart



Informatik 2014 – Big Data

44. Jahrestagung der Gesellschaft für Informatik

Welcome to Stuttgart



ESW Organisation Team

University of Stuttgart

Asim Abdulkhaleq

Kornelia Kuhle

Stefan Wagner

Technische Universität Braunschweig

Eckehard Schnieder

René Hosse

with support from Massachusetts Institute of Technology

Programme Committee

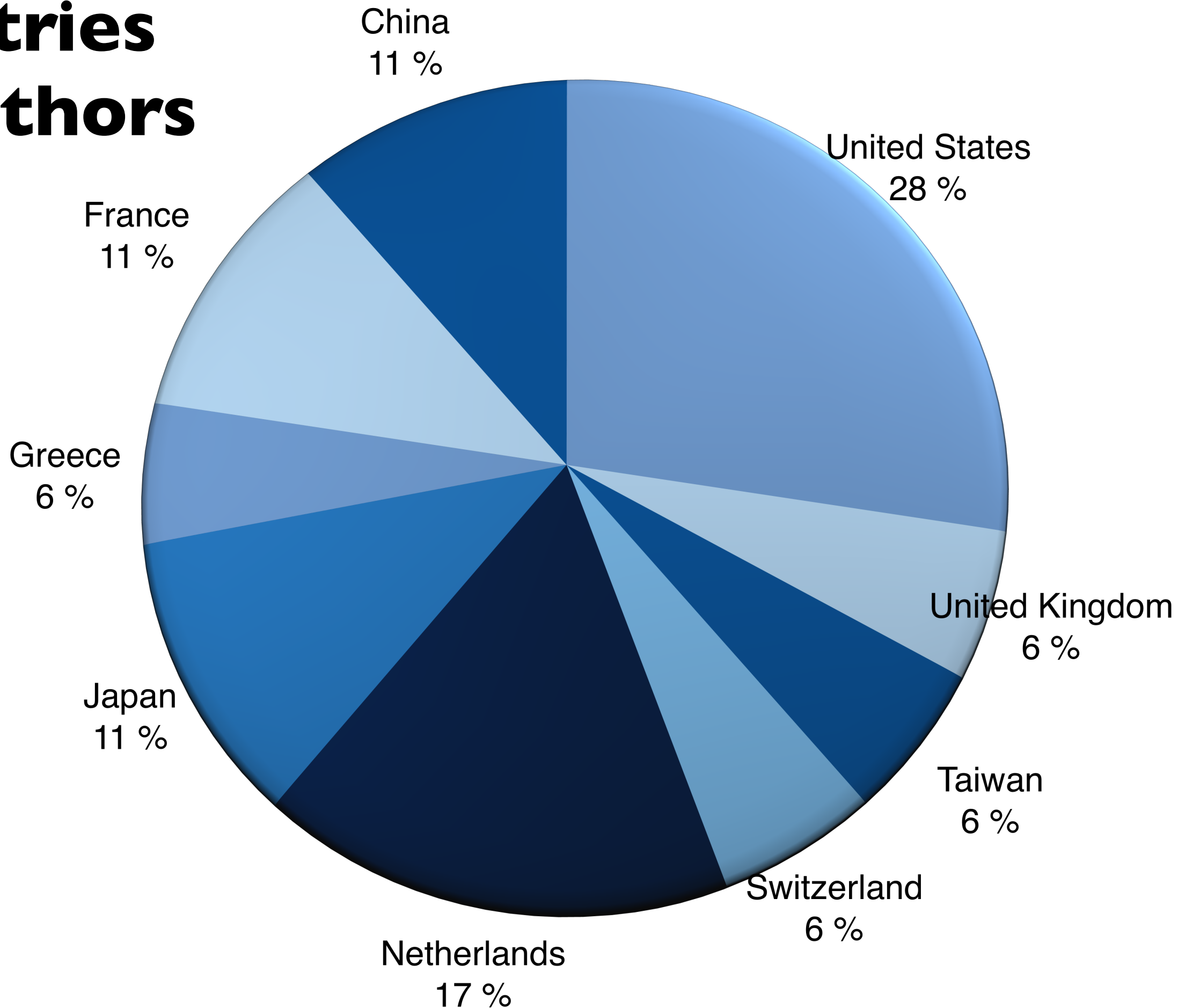
- Jens Braband, *Siemens*
- Tim Kelly, *University of York*
- Nancy Leveson, *MIT*
- Brend Müller, *Robert Bosch GmbH*
- Jörg Müller, *Bombardier*
- Lorena Pelegrin, *ILF*
- Eelco Vriezekolk, *University of Twente*

Sponsored by

VALIDAS



Countries of Authors



accident actions analysis applied approach
based causes concept constraints **control** design
development due engineering factors failure general
hazard identify indicators integration **leading** level
leveson management method **model** mower mowing
operating order potential **process** report
requirements research results risk **robot**
safety stamp standards step stpa structure
system tool used user work

Programme: Day I

9:00-10:00	Introduction to STAMP, STPA, and CAST (Nancy Leveson)		Advanced Users Meeting (0.363)
10:00-10:30	Break		
10:30-12:00	STPA Tutorial and Exercises (John Thomas) Building: Pfaffenwaldring 7, Room: 7.01	STPA in Automotive Domain Tutorial (Asim Abdulkhaleq) Building: Universitätsstr. 38, Room: 0.447	STPA-Sec Security Tutorial and Exercises (Bill Young) Building: Universitätsstr. 38, Room: 0.457
12:00–1:30	Lunch		
1:30-3:00	STPA Tutorial and Exercises	STPA in Automotive Domain Tutorial	Security Tutorial and Exercises
3:00-3:30	Break		

Programme: Day I

3:00-3:30	Break
3:30-05:00	<p>Robert J. de Boer: <i>Application of STAMP to improve the evaluation of safety management</i></p> <p>Martin Rejzek: <i>Use of STPA in digital instrumentation and control systems of nuclear power plants</i></p> <p>Geert Roelf Kleve: <i>Preliminary hazard Analysis of a Track and Trace Software Tool using System Theoretic Process Analysis</i></p>
5:00-8:00	<p>Welcome Reception Building: Universitätsstr. 38, Room 2.013)</p> <p>Tool Demo:</p> <p>Asim Abdulkhaleq: <i>New Improvements to A-STPA tool support for STPA</i></p>

9:00-10:00	Nancy Leveson: <i>Using STAMP to develop Leading indicators</i> Brian Edwards: <i>Utilising STAMP to define the First-into-Man system for medicines</i>
10:00	Break
10:30-12:00	Cody Fleming: <i>Model-based Concept Development and Safety Driven Design</i> John Thomas: <i>Developing systematic techniques to identify control flaws using System-Theoretic Process Analysis</i> Kip Johnson: <i>Investigating Safety and Cybersecurity Tradespace Concepts for Manned-Unmanned Aerial Systems Integration Using STPA</i>
12:00	Lunch
1:30-3:00	Aubrey Samost: <i>Evaluating Systems with Multiple Process Using STPA</i> Eleftheria Mitka: <i>Applying STAMP to safety standards of mowing robots</i> Yasuhiko Kawbae, Tatsuya Yanagisawa, Chunyao Chuang: <i>Applying STAMP/STPA to Human Safety System for Four Wheel Drive-Train</i>
3:00	Break
3:30-5:00	Group Discussion End of workshop

Programme: Day 2

Organisation

Abstract available as proceedings at LNI

20 minutes talks + 10 minutes discussion

Can we put slides on the web?

Reception tonight

Just follows us after the last session for wine, beer and snacks!

Keynote/Tutorial



Nancy Leveson