Second European STAMP Workshop

Welcome!

Stefan Wagner
Institute of Software Technology

22. September 2014
One of the strongest commercial regions in Europe

Stuttgart
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,
University of Stuttgart
Informatik 2014 – Big Data

44. Jahrestagung der Gesellschaft für Informatik
Welcome to Stuttgart

and afterwards...

On the last day of the conference 26. September 2014 starts the "Cannstätter Wasen", the second biggest beer festival in the world.
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 Vrijezolkolk, University of Twente
Sponsored by
VALIDAS
Countries of Authors

- United States: 28%
- Netherlands: 17%
- China: 11%
- Japan: 11%
- France: 11%
- Greece: 6%
- Switzerland: 6%
- United Kingdom: 6%
- Taiwan: 6%
### Programme: Day 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-10:00</td>
<td>Introduction to STAMP, STPA, and CAST (Nancy Leveson)</td>
<td>Advanced Users Meeting (0.363)</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>10:30-12:00</td>
<td>STPA Tutorial and Exercises (John Thomas)</td>
<td>Building: Pfaffenwaldring 7, Room: 7.01</td>
</tr>
<tr>
<td></td>
<td>STPA in Automotive Domain Tutorial (Asim Abdulkhaleq)</td>
<td>Building: Universitätsstr. 38, Room: 0.447</td>
</tr>
<tr>
<td></td>
<td>STPA-Sec Security Tutorial and Exercises (Bill Young)</td>
<td>Building: Universitätsstr. 38, Room: 0.457</td>
</tr>
<tr>
<td>12:00–1:30</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>1:30-3:00</td>
<td>STPA Tutorial and Exercises</td>
<td>STPA in Automotive Domain Tutorial</td>
</tr>
<tr>
<td>3:00-3:30</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>3:00-3:30</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>3:30-05:00</td>
<td>Robert J. de Boer: <em>Application of STAMP to improve the evaluation of safety management</em>&lt;br&gt;Martin Rejzek: <em>Use of STPA in digital instrumentation and control systems of nuclear power plants</em>&lt;br&gt;Geert Roelf Kleve: <em>Preliminary hazard Analysis of a Track and Trace Software Tool using System Theoretic Process Analysis</em></td>
<td></td>
</tr>
<tr>
<td>5:00-8:00</td>
<td>Welcome Reception Building: Universitätsstr. 38, Room 2.013)&lt;br&gt;Tool Demo:&lt;br&gt;Asim Abdulkhaleq: <em>New Improvements to A-STPA tool support for STPA</em></td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
</tbody>
</table>
| 9:00-10:00 | Nancy Leveson: *Using STAMP to develop Leading indicators*  
Brian Edwards: *Utilising STAMP to define the First-into-Man system for medicines* |
| 10:00  | Break                                                                |
| 10:30-12:00 | Cody Fleming: *Model-based Concept Development and Safety Driven Design*  
John Thomas: *Developing systematic techniques to identify control flaws using System-Theoretic Process Analysis*  
| 12:00  | Lunch                                                                |
| 1:30-3:00 | Aubrey Samost: *Evaluating Systems with Multiple Process Using STPA*  
Eleftheria Mitka: *Applying STAMP to safety standards of mowing robots*  
Yasuhiko Kawbae, Tatsuya Yanagisawa, Chunyao Chuang: *Applying STAMP/STPA to Human Safety System for Four Wheel Drive-Train* |
| 3:00   | Break                                                                |
| 3:30-5:00 | Group Discussion  
End of workshop |
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