Welcome to STAMP/STPA 2019

Sponsored by

Zenuity

Attendance

- 416 people registered (28% more than last year)
- Each year we have grown by at least 25%
- Industries represented

Aviation 153	Rail 17
Defense 125	Training 15
Safety 104	Communication 15
Academia/Universities 87 (*)	Space 14
Automotive 72	Environmental 11
Software 65	Insurance, Financial 6
Security 47	Maritime/Ships 3
Transportation 45	Insurance 3
Power/Energy/Nuclear 27	Financial 3
Robotics 23	Mining 3
Oil/gas 20	BioPharma 3
Medical/Healthcare 20	News and Entertainment 1

(adds up to more than 419 because many people listed multiple fields)
* Big jump in percentage this year

Attendance (2)

- 34 countries

Argentina	Iceland	Netherlands
Australia	India	New Zealand
Austria	Ireland	Pakistan
Brazil	Israel	Poland
Canada	Italy	Singapore
China	Japan	South Korea
Denmark	Kenya	Sweden
Finland	Kosovo	Switzerland
France	Kuwait	Taiwan
Germany	Mexico	Turkey
Greece	Nepal	United Kingdom
Hong Kong		

Program Notes

- Buffet Dinner/Poster Session, Tuesday, Stata "Street"

- "Birds of a Feather" lunch Tuesday

Aviation/Defense (Room 32-144)	
Automotive (Room 32-124)	
Security	
Education/Training	
System Safety	
Medical/Healthcare/Pharma	
Oil and Gas/Chemicals	
Energy/Nuclear	
Rail/Transportation	
Ships/Marine	
Software	

Some Advances Since Last Year

- STPA Handbook (Thomas and Leveson)
  - 18,000+ downloads so far

  - (Japanese version) 3,270 downloads

  - Korean and Chinese versions are being created

- CAST Handbook (Leveson) will be ready in two months

- Integration of STPA into industry standards (Auto, Aviation, Defense)

- STAMP meeting in Japan (third year, almost 300 attendees)

- STAMP meeting in Europe (Finland in September)

- Int. System Safety Society Conference (Norfolk, VA July 29-Aug. 2): STAMP track, tutorials, panels (submit abstracts)

Theses and Dissertations

- Jeremiah Robertson, "System Theoretic Process Analysis Applied to Manned-Unmanned Teaming of Air Vehicles", January 2019

- John Rising, "Safety-Guided Design and Analysis of Space Launch Vehicles," June 2018 (Published in Journal of Space Safety Engineering, Elsevier)

Theses and Research Projects (in Progress)

- Lt. Col. Diogo Silva Castilho: Airline Safety Management Systems

- Lawrence Wong: A Systems Approach to Hospital Patient Safety (Dana Farber Cancer Institute)

- 2Lt. Dylan Muramoto: Improving the Air Force Acquisitions Process

- Safety and Security for Autonomous Vehicles

- Hazard Analysis for AI Systems

- Safety and Security in Complex Defense Systems (Net-Centric Warfare)

Leveson White Papers

- Improving the Standard Risk Matrix: Part 1
- An Engineering Perspective on Avoiding Inadvertent Nuclear War (Workshop on NC^3)

In Progress:

- Hazard Analysis for a "System of Systems"
- Improving the Standard Risk Matrix: Part 2
- Using STPA to Generate a System Architecture
- Generating a CONOPS using STPA
- Learning More from Accidents and Incidents
- Generating Causal Scenarios in STPA
- Safety 3
- A Systems Approach to Occupational/Workplace Safety