



European System Theoretic Process Analysis Workshop and Conference (ESWC)

19 & 20 October 2021

Day 1: Tuesday 19th October 13:00 – 18:00 BST

Moderator: Dr Siddartha Khastgir

Time		Session	Speaker
13:00	- 13:10	Welcome and housekeeping	Dr Siddartha Khastgir, Head of Verification & Validation, Intelligent Vehicles at WMG, University of Warwick, UK
13:10	- 13:25	Introduction to WMG	Professor David Greenwood, Director for Industrial Engagement, and CEO of the High Value Manufacturing Catapult at WMG, UK
13:25	- 14:30	System Safety: Past, Present, and Future	Professor Nancy Leveson, Professor of Aeronautics and Astronautics at MIT, USA
14:30	- 14:45	Q&A	
14:45	- 15:10	Using STPA with SW intensive systems	Paul Albertella, Consultant at Codethink, UK
15:10	- 15:15	Q&A	
15:15	- 15:25	Break & Networking	
15:25	- 15:50	Guided Introduction of Attack Tree Analysis in STAMP / STPA	Professor Shigeru Kusakabe, University of Nagasaki, Japan
15:50	- 15:55	Q&A	
15:55	- 16:20	STAMP-guided assurance framework for complex and intelligent systems	Jon Arne Glomsrud, Principal Researcher at DNV, Norway
16:20	- 16:25	Q&A	
16:25	- 16:50	Application of STPA-Sec in Military Systems	Gabriel Oliveira, Systems Engineer and Amanda Iriarte Quilici Systems R&D Coordinator and Program Safety Manager at AEL Systems, Brazil
16:50	- 16:55	Q&A	
16:55	- 17:00	Break	
17:00	- 18:00	Networking	Moderator: Dr Siddartha Khastgir

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Day 2: Wednesday 20th October 13:00 – 18:00 BST

Moderator: Dr Siddartha Khastgir

Time		Session	Speaker
13:00	- 13:10	Welcome and housekeeping	Dr Siddartha Khastgir, Head of Verification & Validation, Intelligent Vehicles at WMG, University of Warwick, UK
13:10	- 14:10	STPA in Industry	Dr John P. Thomas, Director at Engineering Systems Laboratory, Safety and Cybersecurity Group, MIT, USA
14:10	- 14:25	Q&A	
14:25	- 14:50	STPA Analysis of a Neutron Beam System in a Generic Nuclear Research Reactor	Liran Bar-Or, Mechanical Engineer at NRC-Negev, Israel
14:50	- 14:55	Q&A	
14:55	- 15:00	Break	
15:00	- 15:25	Standards' Competence Requirements: Case Study (STPA inclusion on IEC 61508)	José Corrêa de Sá, Engineer and consultant, Portugal
15:25	- 15:30	Q&A	
15:30	- 15:55	How long until an accident occurs? An application using STPA, RealTSL and System Dynamics	Apostolos Zeleskidis, PhD Candidate, Researcher at Democritus University of Thrace, Greece
15:55	- 16:00	Q&A	
16:00	- 16:25	A framework to model the STPA hierarchical control structure of an autonomous ship	Meriam Chaal, PhD Candidate at Aalto University, Finland
16:25	- 16:30	Q&A	
16:30	- 16:40	Break & Networking	
16:40	- 17:05	Using a Systems-Theoretic Approach to Improve Campus Suicide Prevention	Dr Natalia Silvis, Lecturer at Vrije Universiteit, Netherlands
17:05	- 17:10	Q&A	
17:10	- 17:35	Formatting STPA Test Scenarios using Scenario Description Language (SDL)	Shufeng Chen, Project Engineer - Intelligent Vehicles at WMG, University of Warwick, UK
17:35	- 17:40	Q&A	
17:40	- 18:00	Closing the event	Professor Paul Jennings, Director of Research at WMG, University of Warwick, UK