

Program FRAMily 2023

Tuesday 20th of June 2023

Date & Time	Session/presentation name	Presenter	Chair
13:00 - 14:30	<i>Lunch and networking</i>		
14:30 - 18:00	FRAM Tutorial <ul style="list-style-type: none"> - Brief introduction FMV - Basic FRAM model construction - Break and study visit - Manufacturing case study - Experiences using the 5 steps in FRAM analysis 	Enrique Ruiz Zúñiga Jeanette Hounsgaard David Slater	Erik Hollnagel

Wednesday 21st of June 2023

Date & Time	Session/presentation name	Presenter	Chair
9:00 - 9:30	Welcome		Jeanette Hounsgaard /Inge Kristensen
9:30 - 13:00	FRAM approaches and AI		Enrique Ruiz Zúñiga
9:30 - 10:30	The new web based FMV tool for computing functional properties and behaviours.	Rees Hill	
	Machine Learning for FRAM.	Hideki Nomoto	
10:30 - 11:00	<i>Coffee break</i>		
11:00 - 12:15	Development of a Systemic Safety Assessment Method for Human-Robot Interdependencies. Assessing the reliability and validity of an FRAM model: the case of driving in an overtaking scenario. Sherpas wanted: ICAO explores novel approaches to safety management.	Arie Andriaensen Niklas Grabbe Stephane DeWolf	
12:15 - 13:15	<i>Lunch</i>		
13:15 - 16:00	Patient Safety		David Slater
13:15 - 14:45	Adding Resilience to Hospital Bed Allocation, using FRAM Mapping the Way: Functional Modelling for Integrated Community Based Care for Older People. Lessons Learned from Operationalizing Safety-II, specifically FRAM, in a Graduate Occupational Safety Program. Group discussion.	David Slater Alexis McGill Michael Behm	
14:45 - 15:15	<i>Coffee break</i>		

15:15 - 16:15	Routine FRAM applications in Denmark. FRAM from the perspective of a patient.	Jeanette Hounsgaard Bettina Ravnborg Thude	
16:15 - 16:30	Wrap up		Jeanette Hounsgaard /Inge Kristensen
16:30 - 18:30	Venue and sculpture park exploration and networking (free time)		
18:30 - 19:00	Welcome drink sponsored by the Danish Association of Patient Safety		
19:00 -	Dinner		

Thursday 22nd of June 2023

09:00 - 11:45	FRAM Developments and applications		Arie Andriaensen
	FRAM from the viewpoint of qualitative methodology: thresholds for future development?	Thomas Mühlbradt	
09:00 - 10:30	Propagation of variability in using FRAM to Model Complex Sociotechnical Systems.	David Slater	
	Dynamic FRAM modelling: a step towards sorting through complexity	Doug Smith	
10:30 - 10:45	<i>Coffee break</i>		
10:45 – 11:45	To Restrict or Tolerate Variety of Systems: Functional Analysis of Law of Requisite Variety Based on FRAM.	Takayuki Hirose	
	Analysing Adaptive Expertise in Manufacturing Using FRAM.	Naruki Yasue	
11:45 - 13:00	<i>Lunch</i>		
13:00 - 14:30	FRAM and Aerospace		Hideki Nomoto
13:00 - 14:30	Revealing success factors of cooperative operations in space manned missions: crucial factors in Apollo 13 mission.	Shota Iino	

	Studying the recovery actions of Apollo 13, US Airways 1549 and San José Mine accidents with FRAM – discovering the human competencies behind system resilience.	Josué E. Maia França	
	Systems Thinking in the context of a Civil Aviation Authority: challenges and opportunities.	Ronaldo Gamermann	
14:30 - 15:00	<i>Break</i>		
15:00 - 16:00	Closing session		Jeanette Houngaard
15:00 – 15:30	FRAM - the future?	Erik Hollnagel	
15:30 - 16:00	Wrap up and close		Jeanette Houngaard /Inge Kristensen