Thur., 9/19/24 Tutorials

Speaker Ready Room: 135

Start Time	End Time	Duration	Room 104	Room 106	Room 111	Room 113	
7:00 AM	8:00 AM	1:00	Breakfast and Registration				
8:00 AM	12:00 PM	4:00	Tutorial 1: (#12)	Tutorial 2: (#28) Risk,	Tutorial 3: (#24)	Tutorial 5: (#16)	
			Navigating the Future:	Safety, and Reliability	Integrating System	Mastering Your Systems	
			Exploring SysML V2 with	Analysis in Model Based	Architecture in SysML	Engineering	
			SysON - A Hands-On	System Engineering	with Hardware for Rapid	Competencies	
			Tutorial		Prototyping and		
					Validation and		
					Verification		
12:00 PM	1:00 PM	1:00	Lunch				
1:00 PM	5:00 PM	4:00	Tutorial 1: (#12)	Tutorial 2: (#28) Risk,	Tutorial 4: (#33) Use a	Tutorial 6: (#15)	
			Navigating the Future:	Safety, and Reliability	Framework for SE in	Requirements: A	
			Exploring SysML V2 with	Analysis in Model Based	Early-Stage R&D to Build	Comprehensive	
			SysON - A Hands-On	System Engineering	Your Bridge that Spans	Overview	
			Tutorial		the Chasm Between		
					Research and		
					Engineering		

17:00

Depart for Welcome Reception at Gruet

Fri., 9/20/24 Presentations Speaker Ready Room: 135

Fri., 9/20/24 P	Fri., 9/20/24 Presentations Speaker Ready Room: 135						
Start Time	End Time	Duration	Room 104	Room 106	Room 111	Room 113	
7:00 AM	8:00 AM	1:00		Breakfast and	d Registration		
8:00 AM	8:15 AM	0:15					
8:15 AM	8:45 AM	0:30	·				
8:45 AM	9:05 AM	0:20	Break				
9:05 AM	9:55 AM	0:50	Digital Transformation	Technical Management	Systems Reliability &	SE & Agile Stream: (#47)	
			Stream: (#11) Realizing	Stream: (#20) Enhancing	Resiliency Stream: (#27)	Systems Engineering	
			the potential of SysML	Onboarding in QA	Justifying Resilience	Agility – Guide Book	
			V2 with SysON: the	Teams: Object Detection		Foundations for Systems	
			Fundamental Role of	Approach for Test Case		Engineers	
			Open-Source for	Generation in			
			Enabling the Digital	Exploratory Testing			
			Engineering				
			Transformation				
9:55 AM	10:45 AM	0:50	Digital Transformation	Technical Management	Systems Reliability &	Cross-Domain Solutions	
			Stream: (#18) Digital	Stream: (#21) Strategies	Resiliency Stream: (#4)	Stream: (#38) Systems	
			Transformation	and Best Practices for	Designing Affordable	engineering and systems	
			Challenges: Real-World	Managing Complex	Resilient Systems	thinking to implement a	
			Observations and	System Architectures		Crisis Intervention Team	
			Mitigations			in a rural town	
10:45 AM	11:35 AM	0:50	Digital Transformation	Technical Management	Systems Reliability &	Cross-Domain Solutions	
			Stream: (#25) MBSE	Stream: (#9) Leading and	Resiliency Stream: (#49)	Stream: (#57) Addressing	
			Digital Engineering	Taking Charge of a	Towards Reliable	the Upstream Ecological	
			Ecosystem	System Engineering	Embedded Systems: A	Impacts of Engineering	
				Human Integration Team	Review of Hardware	Decisions	
					Reliability Challenges		
11:35 AM	11:45 AM	0:10		Bro	eak		
11:45 AM	12:35 PM	0:50	Digital Transformation	Requirements Stream:	System of Systems	Cross-Domain Solutions	
			Stream: (#30) Digital	(#45) Optimization of	Stream: (#56) System of	Stream: (#36) Mission	
			Twins Platform Systems	Requirements	Systems Engineering and	Assurance and the	
			Engineering to Optimize	Management for	Analysis	Enterprise Lifecycle: A	
			Astronaut Physiology	complex Systems: An		Systems Thinking	
			During Human Space	Innovative Approach		Approach	
			Exploration	with Product Classes and			
				Attribute			
12:35 PM	1:35 PM	1:00			Networking		
1:35 PM	2:25 PM	0:50	Digital Transformation	Requirements Stream:	Cyber Security Stream:	SE/Education Stream:	
			Stream: (#41) Digital	(#23) Integration of	(#37) Understanding	(#8) Systems Engineering	
			Engineering Tool	System Data	INCOSE's Systems	Innovation Through	
			Evaluation Criteria	Requirements in	Engineering against	Higher Education	
			Template (DETECT))	Stuttering-Aware Speech			
			Selection and SysML v2	Recognition Systems	(SbD) and DOE's Cyber		
			Transition Guidance		Informed Engineering		
					(CIE)		
2:25 PM	3:15 PM	0:50	Al Opportunities & Risks	Requirements Stream:	Cyber Security Stream:	SE/Education Stream:	
			Stream: (#13) Leveraging	(#42) Adaptation	(#34) Overcoming	(#39) Effective	
			AI for Enhanced Systems	Requirements for	Barriers to Smart Home	Integration of Diverse	
			Engineering	Department of Defense	IoT Security: The Impact	Engineering	
				Contracts: A Systems	of Manufacturer	Competencies In the	
				Engineering Perspective	Guidance on the	Development of	
					application of User-	Complex STEM (Science,	
					controlled security	Technology, Engineering,	
					features	or Mathematics)	
						Projects: Optimizing	
						Efforts and Investments	
						in Student-Led Research	
						Projects	

Start Time	End Time	Duration	Room 104	Room 106	Room 111	Room 113	
3:15 PM	4:05 PM	0:50	Al Opportunities & Risks	Requirements Stream:	Security Stream: (#48)	Technical Management	
			Stream: (#19) Detecting	(#55) Space Mission	Toward an Anti-Security	Stream: (#35) Rapid Risk	
			Defects in Sequential	Engineering using	Security Primer for	Management	
			Inputs to Digital Twins	Innoslate(R) with	Systems Engineers		
			Using Machine Learning	example mission			
4:05 PM	4:25 PM	0:20	Break and Networking				
4:25 PM	5:15 PM	0:50	AI Opportunities & Risks	Architecture/Design	Operational Technology	Technical Management	
			Stream: (#52) Examining	Stream: (#32) System	Stream: (#17) Model	Stream: (#10) Time-Delta	
			The Impact of Prompting	Interface Clustering	Based Document	Method for Measuring	
			GAI: A Comparative	using Design Structured	Generation	Software Development	
			Analysis of Testing	Matrix (DSM)		Contribution Rates	
			Strategy				
5:15 PM			Depart for Dinner				

32 talks

Sat., 9/21/24 Presentations & SEP Exam Speaker Ready Room: 135

Sat., 9/21/24 Presentations & SEP Exam Speaker Ready Room: 135								
Start Time	End Time	Duration	Room 104	Room 106	Room 111	Room 113		
7:00 AM	8:00 AM	1:00	Breakfast					
8:00 AM	8:15 AM	0:15	Final Plenary - Introduction Room 101/103					
8:15 AM	8:45 AM	0:30	Keynote Address					
8:45 AM	9:00 AM	0:15	Break			SEP Exam checkin		
9:00 AM	9:50 AM	0:50	Modeling Stream: (#2)	Modeling Stream: (#54)	Case Study Stream: (#60)			
			Applying Formal	Integrating BOM	Systems engineering for			
			Methods to SysML	Evaluation for Enhanced	scientists and aliens			
			Models to Prove	Validation of SysML				
			Correctness and Enable	Models				
			Hallucination-Free LLMs					
9:50 AM	10:40 AM	0:50	Modeling Stream: (#5)	Modeling Stream: (#29)	Case Study Stream: (#43)			
			Understanding and	Data Markings and	Incremental MBSE:			
			Applying the	Classification in MBSE	Deliver MBSE Value	SEP Exam		
			Comprehensive System		Faster			
			Design Language (CSDL)					
10:40 AM	11:30 AM	0:50	Modeling Stream: (#6)	Modeling Stream: (#51)	Case Study Stream: (#53)			
			Mapping CSDL to ISO	Using SysML v2 to Define	, ,			
			15288 Ontology for	an MBSE Methodology	Developing Tech			
			Model Validation		Standards: Lessons			
					Learned			
11:30 AM	11:40 AM	0:10		Break				
11:40 AM	12:30 PM	0:50	Modeling Stream: (#26)	Modeling Stream: (#58)	Case Study Stream: (#50)			
			Enabling MBSE through	Ultimate Track Hacking	Resident Pathogens in			
			Function-Based	Platform (UTHP) -	Systems Engineering:			
			Requirement	Software Bill of Material	Case Study of Accident			
			Synchronization using	(SBOM) Life Cycle	Analysis of Boeing 737			
			SysML	Modeling	Max-8 Crashes			
12:30 PM	2:00 PM	1:30		Lunch and P	oster Session	<u> </u>		
2:00 PM	2:50 PM	0:50						
			Concluding Remarks Room 101/105					

13 talks possible, 12 scheduled