

RAMS 2022 Program Matrix (DRAFT)

Time	#	A	B	C	D	E	Date
8:30 - 10:00		General Chair's Welcome & Keynote - Grand A-B					
10:15 - 12:15	1	An Introduction to Probability Models in Reliability & Maintainability	Dynamic Reliability and Artificial Intelligence (VK)	Deep Learning in R&M: Challenges, Opportunities and Future Perspective	Design Optimization Using R&M Techniques	Reliability Modeling I - Requirements and prediction	Monday January 24
13:30 - 15:30	2		Software Aging and Rejuvenation	Applications of Machine Learning I	Accelerated Life Testing I	FMEA	
15:45 - 17:45	3	Introduction to R&M Management	First & Beyond First Field Failure Analysis for Reliability & Service	Risk Analysis and Management I	R&M Applications in Aerospace I	R&M Computational Methods I	
17:00 - 19:00	4	Exhibitors Reception					
7:45 - 8:00		Chairman's Corner - Grand A					
8:00 - 10:00	5	Introduction to Life Data Analysis	Practical Guide to Reliability Growth Analysis	Applications of Machine Learning II		Reliability Modeling II - Partial information for Complex system reliability	Tuesday January 25
10:15 - 12:15	6		Environmental Screening Techniques	R&M Management I	FMEA- Automated or Team Based	R&M Applications in Health Care	
13:30 - 15:30	7	Understanding and Applying the Fundamentals of FMEAs	Introduction to Software Reliability Models	System and Software Safety	Diagnostics and Prognostics	R&M Computational Methods II	
15:45 - 17:45	8	Introduction to Maintenance Models	Introduction to Markov Modeling	Software Reliability and Security	Accelerated Life Testing II	R&M Management II	
7:45 - 8:00		Chairman's Corner - Grand A					
8:00 - 10:00	9	Design Verification Plan and Report (DVP&R) for Reliability	An Introduction of Bayesian Method for Reliability Data Analysis	Applications of Machine Learning III	R&M Applications in Aerospace II	Reliability Modeling III - Model-Based integrated prediction	Wednesday January 26
10:15 - 12:15	10	Advisory Board Panel - Grand C-D					
13:30 - 15:30	11	Human Reliability Analysis	Three Ways to do Reliability Allocation	Reliability Growth Modeling and Analysis (PF)	DoD Panel	R&M Applications Infrastructure Management, Manufacture and Supportability	
15:45 - 17:45	12	Use of DOE for Reliability Evaluation & Improvement	Integrating Physics with Sensor Data for System Health	Life Data Analysis (NJ)	Fault Detection and Repairable Systems	Maintenance Models and Methodologies	
18:30 - 21:30		General Reception & Banquet - Ballroom A					
7:45 - 8:00		Chairman's Corner - Location: GRAND A					
8:00 - 10:00	13	HRA: Exploring Concepts and What You Need to Perform an Analysis	Deep Learning for Prognostics & Health Management	Applications of Machine Learning IV	System of Systems: RAMS Challenges	Reliability Modeling IV - Net-work reliability	Thursday January 27
10:15 - 12:15	14	Introduction to Fractional Failure and Its Application in Reliability	Rapid Transit Risk Management	Fault Tree Analysis		Physical Reliability Models	

Legend	(T) = Tutorial	(PN) = Panel	(PS) = Paper Session
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