

RAMS 2022 Program Matrix

Time	#	A	B	C	D	E	Date	
		Presidio (I&II)	Turquoise I	Joshua Tree (I&II)	Coronado (I&II)	Agave (I&II&III)		
8:30 - 10:00		General Chair's Welcome & Keynote - Presidio III, IV, V						Monday January 24
10:15 - 12:15	1	An Introduction to Probability Models in Reliability & Maintainability	Dynamic Reliability and Artificial Intelligence	Design Optimization Using R&M Techniques	Deep Learning in R&M: Challenges, Opportunities and Future Perspective	Reliability Modeling I - Requirements and Prediction		
13:30 - 15:30	2		Software Aging and Rejuvenation	Machine Learning in Reliability Applications	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	R&M Applications in Aerospace I	R&M Computational Methods I		
17:00 - 19:00	4	Attendee/Exhibit Reception - Turquoise II & III						
7:45 - 8:00		Chairman's Corner - Turquoise II						Tuesday January 25
8:00 - 10:00	5	Introduction to Life Data Analysis	Practical Guide to Reliability Growth Analysis	Artificial Intelligence and Machine Learning		Reliability Modeling II - Partial Information for Complex System Reliability		
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 - Turquoise II						Wednesday January 26
8:00 - 10:00	9	Design Verification Plan and Report for Reliability	An Introduction of Bayesian Method for Reliability Data Analysis	Applications of Machine Learning	R&M Applications in Aerospace II	Reliability Modeling III - Model-Based Integrated Prediction		
10:15 - 12:15	10	Advisory Board Panel - Presidio III, IV, V						
13:30 - 15:30	11			Reliability Growth Modeling and Analysis	DoD Panel - Use of AI, ML, and the Digital Thread for R&M Engineering Activities	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	Fault Detection and Repairable Systems	Maintenance Models and Methodologies		
18:30 - 21:30		General Reception & Banquet - Sundance Courtyard/Gazebo & Presidio III, IV, V						Thursday January 27
7:45 - 8:00		Chairman's Corner - Turquoise II						
8:00 - 10:00	13	Introduction to Fractional Failure and Its Application in Reliability	Deep Learning for Prognostics & Health Management	Industry Applications of Machine Learning	System of Systems: RAMS Challenges	Reliability Modeling IV - Network Reliability		
10:15 - 12:15	14	Human Reliability Analysis	Rapid Transit Risk Management	Fault Tree Analysis		Physical Reliability Models		

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