

IS2022 Schedule

Saturday at IS 2022

Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time		Track 1	Track 2	Track 3	Track 4	Track 5	Track 6
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney								
05:00	09:00	08:00	12:00	13:00	17:00	14:00	18:00	17:30	21:30	20:00	00:00	21:00	01:00	22:00	02:00	Session A	Tutorial#23: A.1 / Back to Basics: Fundamentals for Systems Engineering Success David Long	Tutorial#13: A.2 / Systems Security Engineering: A Loss-Driven Focus Mark Winstead, Michael McEvilley, Daryl Hild (The MITRE Corporation)	Tutorial#6: A.3 / Systems Engineering an Off-Grid Utility System - A MBSE Tutorial Steve Cash	Tutorial#21: A.4 / Behavior control: methodology and framework for integrating socio-technical systems Avi Harel (Ergolight)	Tutorial#26: A.5 / Artificial Intelligence for Systems Engineers: Going Deep With Machine Learning and Deep Neural Networks Barclay Brown (Raytheon Technologies); Ramakrishnan Raman (Honeywell Technology Solutions); Ali Raz (George Mason University)	Tutorial#22: A.6 / Modelling Systems of Systems Without Drowning: Using ISO 24641-Compliant ARCADIA Methodology Anthony Komar (Siemens Digital Industries Software)
09:00	10:30	12:00	13:30	17:00	18:30	18:00	19:30	21:30	23:00	0:00	1:30	1:00	2:30	2:00	3:30	Lunch						
10:30	14:00	13:30	17:00	18:30	22:00	19:30	23:00	23:00	2:30	1:30	5:00	2:30	6:00	3:30	7:00	Session C	Invited Content#SEFun#0: C.1 / Back to Basics: Thinking Like a Systems Engineering Practitioner Dave Walden (Sysnovation)	Tutorial#13: A.2 / Systems Security Engineering: A Loss-Driven Focus Mark Winstead, Michael McEvilley, Daryl Hild (The MITRE Corporation)	Tutorial#6: A.3 / Systems Engineering an Off-Grid Utility System - A MBSE Tutorial Steve Cash	Tutorial#21: A.4 / Behavior control: methodology and framework for integrating socio-technical systems Avi Harel (Ergolight)	Tutorial#26: A.5 / Artificial Intelligence for Systems Engineers: Going Deep With Machine Learning and Deep Neural Networks Barclay Brown (Raytheon Technologies); Ramakrishnan Raman (Honeywell Technology Solutions); Ali Raz (George Mason University)	Tutorial#22: A.6 / Modelling Systems of Systems Without Drowning: Using ISO 24641-Compliant ARCADIA Methodology Anthony Komar (Siemens Digital Industries Software)

Sunday at IS 2022

Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time		Track 1	Track 2	Track 3	Track 4	Track 5	Track 6
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney								
05:00	09:00	08:00	12:00	13:00	17:00	14:00	18:00	17:30	21:30	20:00	00:00	21:00	01:00	22:00	02:00	Session E	Tutorial#28: E.1 / Systems 101 - An Introductory Tutorial on Systems Thinking and Systems Engineering Andrew Madry, Jawahar Bhalla (JB Engineering Systems)	Tutorial#3: E.2 / Systems Engineering by the Book Paul Martin (SE Scholar, LLC)	Tutorial#14: E.3 / Negotiation, Persuasion and Conflict Management for the Systems Engineer Zane Scott (Vitech Corporation)	Tutorial#5: E.4 / Complex System Governance: Practical Implications for Improving Complex System Performance Joseph Bradley (Old Dominion University); Richard Hodge (DrRichardHodge.com)	Tutorial#24: E.5 / Building Really Big Systems with Lean-Agile Practices Harry Koehnemann (Scaled Agile); Robin Yeman, Jeff Shupack (Project & Team)	
09:00	10:30	12:00	13:30	17:00	18:30	18:00	19:30	21:30	23:00	0:00	1:30	1:00	2:30	2:00	3:30	Lunch						
10:30	14:00	13:30	17:00	18:30	22:00	19:30	23:00	23:00	2:30	1:30	5:00	2:30	6:00	3:30	7:00	Session G	Tutorial#28: E.1 / Systems 101 - An Introductory Tutorial on Systems Thinking and Systems Engineering Andrew Madry, Jawahar Bhalla (JB Engineering Systems)	Tutorial#3: E.2 / Systems Engineering by the Book Paul Martin (SE Scholar, LLC)	Tutorial#14: E.3 / Negotiation, Persuasion and Conflict Management for the Systems Engineer Zane Scott (Vitech Corporation)	Tutorial#5: E.4 / Complex System Governance: Practical Implications for Improving Complex System Performance Joseph Bradley (Old Dominion University); Richard Hodge (DrRichardHodge.com)	Tutorial#24: E.5 / Building Really Big Systems with Lean-Agile Practices Harry Koehnemann (Scaled Agile); Robin Yeman, Jeff Shupack (Project & Team)	

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US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney																					
05:00	06:30	08:00	09:30	13:00	14:30	14:00	15:30	17:30	19:00	20:00	21:30	21:00	22:30	22:00	23:00	23:30	0:00	Keynote		Keynote - Plenary#K1: P1 / Architecting the Future: The Role of SE and DE at the NRO Dr. Christopher J. Scolese (Director, NRO)															
06:30	7:00	09:30	10:00	14:30	15:00	15:30	16:00	19:00	19:30	21:30	22:00	22:30	23:00	23:30	0:00	Break																			
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney				President Invited Content		MBSE, System Architecture/Design Definition		Agile		Artificial Intelligence, Machine Learning		System Safety		SE Fundamentals							
7:00	7:40	10:00	10:40	15:00	15:40	16:00	16:40	19:30	20:10	20:20	22:40	23:00	23:40	0:00	0:40			Daniel Siegl		Antony Williams		Barclay Brown		Ken Ptack		David Long, Nicole Hutchinson									
7:45	8:25	10:45	11:25	15:45	16:25	16:45	17:25	20:15	20:55	22:45	23:25	23:45	0:25	0:45	1:25	Session 1		Invited Content#PIC#1: 1.1 / Safer Complex Systems – How to Move from State of the Practice to State of the Art, SAFELY!! Moderator:Kerry Lunney (Thales Australia); Duncan Kemp (UK Ministry of Defence); Panelists: Michael Watson ; Erika Palmer ; Meaghan O'Neil ; Chairwoman: Erika Palmer		Paper#128: 1.2.1 / From Model-based to Model and Simulation-based Systems Architectures – achieving quality engineering through descriptive and analytical models		Presentation#76: 1.3.1 / Industrial DevOps: From Value Streams to Lean-Agile Teams for sustainable delivery		Suzette Johnson (Northrop Grumman); Robin Yeman (Catalyst Campus)		Paper#123: 1.4.1 / Artificial Intelligence Capabilities for Effective Model-Based Systems Engineering: A Vision Paper		Paper#149: 1.5.1 / A SysML Profile for MIL-STD-882E (System Safety)		Myron Hecht, Ross Raymond (Aerospace Corp)		Invited Content#SEFun#2: 1.6.1 / Engineering the Value Chain System		Dr. Jon Wade (University of California, San Diego)	
8:25	9:10	11:25	12:10	16:25	17:10	17:25	18:10	20:55	21:40	23:25	0:10	0:25	1:10	1:25	2:10			Paper#40: 1.2.2 / From System Architecting to System Design and Optimization: A Link Between MBSE and MDAO		Presentation#35: 1.3.2 / Augmenting Agile Software Development to Improve Systems Thinking		Presentation#19: 1.4.2 / Exploring Explainable Artificial Intelligence to aid Systems Engineers in Design and Evaluation of Complex Systems		Paper#50: 1.5.2 / Concept verification and validation using psychological scales through an 'Eating-Together' System Enhancing Connectivity for Busy-Generation Urbanites with Neighborhood Community in Japan		Urara Satake (Graduate School of System Design and Management, Keio University)		Invited Content#SEFun#1: 1.6.2 / Look in All the Corners: Gathering, Tracking, and Verifying Requirements		Courtney Wright (V1 Decisions)					
12:10	12:30	12:10	13:30	17:10	18:30	18:10	19:30	21:40	23:00	0:10	1:30	1:10	2:30	2:10	3:30	Lunch																			
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney				MBSE, Aerospace, Defense		Teaching and Training		Aerospace		Digital Engineering		SE Fundamentals									
10:30	11:10	13:30	14:10	18:30	19:10	19:30	20:10	23:00	23:40	1:30	2:10	2:30	3:10	3:30	4:10	Session 2		Duncan Kemp, Antony Williams		Ali Raz		Tami Katz		Eric Belle		David Long, Nicole Hutchinson									
11:15	11:55	14:15	14:55	19:15	19:55	20:15	20:55	23:45	0:25	2:15	2:55	3:15	3:55	4:15	4:55			Panel#5: 2.1 / Transdisciplinary Systems Engineering: What is it, why do we need it, and how do we get there from here? Moderator:Peter Brook (Dashwood Systems Engineering); Panelists:		Paper#132: 2.2.1 / Applying Model-Based Systems Engineering Methods to a Novel Shared Systems Simulation Methodology		Paper#27: 2.3.1 / Introducing Systems Thinking Techniques into an Undergraduate Engineering Education		Presentation#25: 2.4.1 / Systems Engineering Challenge of a Solar Powered High Altitude Aircraft		Presentation#68: 2.5.1 / Realizing viewpoints in digital engineering		Eran Gery (IBM)		Invited Content#SEFun#4: 2.6.1 / MBSE – The Natural Evolution of Systems Engineering		Jon Holt (Scarecrow Consultants)			
14:40	15:00	15:00	15:30	20:00	20:30	21:00	21:30	0:30	1:00	3:00	3:30	4:00	4:30	5:00	5:30	Break		Paper#9: 2.2.2 / Extending UAF for Model-Based Capability Planning and Enterprise Portfolio Management		Paper#18: 2.3.2 / Academic application of trade-off studies to support a CubeSat project		Presentation#7: 2.4.2 / Perceptions of Emerging Urban Air Mobility Systems: Differences Between Early to Laggard Adopters of Passenger Air Vehicles		Presentation#74: 2.5.2 / The Power of Connections in a Digital Asset Exchange		Presentation#68: 2.5.1 / Realizing viewpoints in digital engineering		Eric Belle		Invited Content#SEFun#5: 2.6.2 / if you thought Systems Engineering was fun, wait until you try System of Systems Engineering		Duncan Kemp (UK Ministry of Defence)			
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney				System Thinking		MBSE, Configuration Management		Teaching and Training				Digital Engineering		SE Fundamentals							
12:30	13:10	15:30	16:10	20:30	21:10	21:30	22:10	1:00	1:40	3:30	4:10	4:30	5:10	5:30	6:10	Session 3		Susan Ronning, Amy Thompson		Mark Sampson		Rick Hefner		Daniel Siegl		David Long, Nicole Hutchinson									
13:15	13:55	16:15	16:55	21:15	21:55	22:15	22:55	1:45	2:25	4:15	4:55	5:15	5:55	6:15	6:55			Paper#112: 3.1.1 / What Systems Engineers Should Know About Emergence Jakob Axelsson (Mälardalen University)		Presentation#77: 3.2.1 / An integrative approach proposal for System Engineering, Design Science and Configuration Management		Paper#121: 3.3.1 / Extracurricular projects - Teaching Systems architecting in a limited time-span		Håkon Kindem (NTNU)		Panel#8: 3.4 / How to apply a criticality framework to your communications' networks		Susan Ronning (ADCOMM Engineering LLC); Anne O'Neil (Anne O'Neil Consultants LLC); William Schieble (MITRE); Thomas Manley (Decision Analysis Service); Keith Rothschild (Cox Communications)		Paper#125: 3.5.1 / Controlling the Digital Engineering Ecosystem: An Elastic Model Governance Guide for the Digital Thread		Dr. Nicole Hutchinson (Stevens Institute of Technology)		Invited Content#SEFun#6: 3.6.1 / You're a Systems Engineer: Own It!	
																Presentation#69: 3.1.2 / Death Rays, databases, and double diamonds Duncan Kemp (Ministry of Defence); Meaghan O'Neil (INCOSE)		Paper#70: 3.2.2 / Configuration Management for Model Based Systems Engineering - An example from the Aerospace Industry Adriana D'Souza, Phanikrishna Thota (Airbus)		Paper#142: 3.3.2 / Enabling the Systems Engineering Education Ecosystem (SEE)		Jon Wade (University of California, San Diego); Arianne Collopy (University of Colorado, Denver); Cihan Dagli (Missouri S&T); Hortense Gerardo (University of California, San Diego); Kristin Wood (University of Colorado, Denver)		Presentation#73: 3.5.2 / Defining a Measurement Framework for Digital Engineering Joseph Bradley (Main Sail, LLC); Thomas McDermott (SERC)		Presentation#74: 3.6.2 / What Force is More Powerful Than Profit? – An Exploration of Why Leaders Still Fail to Recognize the Value of SE		Randall Iliff (PPI)		Invited Content#SEFun#7: 3.6.2 / What Force is More Powerful Than Profit? – An Exploration of Why Leaders Still Fail to Recognize the Value of SE					

Tuesday at IS 2022

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US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney										
05:00	06:30	08:00	09:30	13:00	14:30	14:00	15:30	17:30	19:00	20:00	21:30	21:00	22:30	22:00	23:00	23:30	23:30	Keynote	Keynote - Plenary#K2: P2 / Mobility and System Engineering Integration Carla Bailo (Center for Automotive Research (CAR))					
06:30	7:00	09:30	10:00	14:30	15:00	15:30	16:00	19:00	19:30	21:30	22:00	22:30	23:00	23:30	0:00		Break							
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney				President Invited Content	Risk and Opportunity Management	MBSE	Competency	Biomed/Healthcare	Tech Ops Invited Content	
																		Angela Robinson	Mark Sampson	Mike Celentano	Stephanie Chiesi	Christopher Hoffman, Olivier Dessoude		
7:00	7:40	10:00	10:40	15:00	15:40	16:00	16:40	19:30	20:10	22:00	22:40	23:00	23:40	0:00	0:40		Session 4	Invited Content#PIC#2: 4.1 / President Invited Content #2	Paper#60: 4.2.1 / Tilting at Windmills: Drivers, Risk, Opportunity, Resilience and the 2021 Texas Electricity Grid Failure Matthew Hause (SSI); Lars-Olof Kihlström (Syntell AB)	Paper#113: 4.3.1 / Git-based Model Management for Quality Monitoring of Systems Engineering Models Daniel Lehner, Simon Vamberszky (Johannes Kepler University Linz/Austria - Institute of Business Informatics - Software Engineering); Konrad Wieland (LieberLieber Software); Daniel Siegl (LieberLieber Software GmbH)	Paper#104: 4.4.1 / Developing Competence in the Systems Engineering Professional Competencies Heidi Hahn (New Mexico Tech)	Presentation#20: 4.5.1 / Using Systems Engineering to Design and Evaluate a Transparent and Accessible Vaccine Appointment and Delivery System Stephen Sutton (INCOSE Critical Infrastructure Protection and Recovery Working Group); Douglas Bodner (Georgia Institute of Technology); David Aldredge (INCOSE Critical Infrastructure Protection and Recovery Working Group)	Presentation#20: 4.5.1 / Using Systems Engineering to Design and Evaluate a Transparent and Accessible Vaccine Appointment and Delivery System Stephen Sutton (INCOSE Critical Infrastructure Protection and Recovery Working Group); Douglas Bodner (Georgia Institute of Technology); David Aldredge (INCOSE Critical Infrastructure Protection and Recovery Working Group)	Invited Content#TOIC#1: 4.6 / Transforming Mobility: Automotive Executive Roundtable Moderator:Carla Bailo (Center for Automotive Research (CAR)); Anne O'Neil (Systems Catalyst & Strategist for Mobility and Infrastructure, AOC Systems Consortium); Panelists:
7:45	8:25	10:45	11:25	15:45	16:25	16:45	17:25	20:15	20:55	22:45	23:25	23:45	0:25	0:45	1:25			Presentation#27: 4.2.2 / The Unified Risk Assessment and Measurement System (URAMS) William Bryant (MTSI)	Paper#127: 4.3.2 / Model-Based Analysis of Standard Operating Procedures' Role in Abnormal and Emergency Events Jomana Bashatah, Lance Sherry (George Mason University)	Paper#144: 4.4.2 / Systems Engineering Competency Expectations, Gaps, and Program Analysis Jon Wade, Hortense Gerardo, Harold Sorenson (University of California, San Diego)	Presentation#63: 4.5.2 / Rapid Application of Systems Engineering: Quantifying Airborne Dispersion & Solutions in Response to the COVID-19 Pandemic Nathan Edwards, Richard Potember (The MITRE Corporation)	Presentation#63: 4.5.2 / Rapid Application of Systems Engineering: Quantifying Airborne Dispersion & Solutions in Response to the COVID-19 Pandemic Nathan Edwards, Richard Potember (The MITRE Corporation)		
8:30	9:10	11:30	12:10	16:30	17:10	17:30	18:10	21:00	21:40	23:30	0:10	0:30	1:10	1:30	2:10			Presentation#71: 4.2.3 / Risky Business – Developing an Approach to Managing Technical Systemic Risks Ian Gibson (Atkins)	Paper#47: 4.3.3 / You Can't Touch This!: Logical Architectures in MBSE and the UAF Matthew Hause (SSI); Lars-Olof Kihlström (Syntell AB)	Paper#105: 4.4.3 / Gender-based Differences in the INCOSE Professional Competencies Heidi Hahn (New Mexico Tech)	Paper#53: 4.5.3 / System Engineering as an effective approach for the fast development of space downstream applications in the health sector Paolo Petrina (OMICA s.r.l.); Elena Razzano (European Space Agency - ECSAT); Arnaud Runge (European Space	Paper#53: 4.5.3 / System Engineering as an effective approach for the fast development of space downstream applications in the health sector Paolo Petrina (OMICA s.r.l.); Elena Razzano (European Space Agency - ECSAT); Arnaud Runge (European Space		
9:10	10:30	12:10	13:30	17:10	18:30	18:10	19:30	21:40	23:00	0:10	1:30	1:10	2:30	2:10	3:30		Lunch							
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney				Human Systems Integration	Industry 4.0, LDSE	MBSE		Soft Skills	Tech Ops Invited Content	
																	Ben Mogridge	Michael Watson, Mike Celentano	Ali Raz		Rick Hefner	Christopher Hoffman, Olivier Dessoude		
10:30	11:10	13:30	14:10	18:30	19:10	19:30	20:10	23:00	23:40	1:30	2:10	2:30	3:10	3:30	4:10		Session 5	Paper#67: 5.1.1 / Developing a Human Performance Model Based Systems Engineering System Architecture (MBSEA) for Defense Application Tara Sarathi, Jillian Cyr, Heather Morris, Michael Shatz, Rich DeLaura, Paula Collins, James Balcius (MIT Lincoln Laboratory)	Presentation#28: 5.2.1 / Manufacturing industry in industry 4.0: As experienced by engineering managers. Bongekile Matsenjwa (University of Cape Town)	Presentation#45: 5.3.1 / Think Globally, Act Locally: Adapting MBSE for the Enterprise Context Ryan Noguchi, James Martin (Aerospace Corporation)	Presentation#6: 5.4 / SE Leadership Through Influence and Persuasion - An Art We Should All Master! Moderator:Kerry Lunney (Thales Australia); Panelists: Brian Collins (University College London); Anne O'Neil (Anne O'Neil Consultants); Melissa Jovic (Engineers Australia); Zane Scott (Zuken Vitech)	Paper#68: 5.5.1 / The Soft Skills Challenge: The left brain's search for its other half Zane Scott (Zuken Vitech)	Invited Content#TOIC#2: 5.6 / Transdisciplinary Perspectives on Systems Engineering in and for Contested Cyber Environments Moderator:Jimmie McEver (INCOSE - Technical Operations); Panelists: Rick Dove ; Tom McDermott ; Stephen Sutton ; Erika Palmer ; Alan Hardling ;	
11:15	11:55	14:15	14:55	19:15	19:55	20:15	20:55	23:45	0:25	2:15	2:55	3:15	3:55	4:15	4:55		Paper#45: 5.1.2 / Oversimplification of Systems Engineering Goals, Processes, and Criteria in NASA Space Life Support Harry Jones (NASA Ames Research Center)	Presentation#75: 5.2.2 / The Value of Loss-Driven Systems Engineering (LDSE) John Britis, Kenneth Cureton (INCOSE Resilient Systems Working Group (RSWG))	Presentation#39: 5.3.2 / Using Model Based Systems Engineering Technical Reviews for Complex System of Systems Travis Goodwyn, Kasey Hill (Deloitte)	Presentation#9: 5.5.2 / Negotiation: Playing the Infinite Game Zane Scott (Vitech)				
12:00	12:30	15:00	15:30	20:00	20:30	21:00	21:30	0:30	1:00	3:00	3:30	4:00	4:30	5:00	5:30		Break							
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney				Construction	MBSE, System Architecture/Design Definition	Value of System Engineering	Soft Skills	Tech Ops Invited Content		
																	Paul Schreinemakers, Gregory Parnell	Amy Thompson	Stephanie Chiesi	Heather Feli	Christopher Hoffman, Olivier Dessoude			
12:30	13:10	15:30	16:10	20:30	21:10	21:30	22:10	1:00	1:40	3:30	4:10	4:30	5:10	5:30	6:10		Session 6	Panel#1: 6.1 / 'Stop beating up on complexity' Jawahar Bhalla (JB Engineering Systems / Shoal Group); Gary Smith (ISSS VP System Practice); Charlotte Dunford (Rolls Royce); Suja Joseph-Malherbe (Letter27); Patrick Godfrey (Emeritus Professor: University of Bristol)	Paper#15: 6.2.1 / Visual Lean planning tools in the construction industry: A case study Caroline Saatvedt Witte, Satyanarayana Kokkula, Gerrit Muller (University of South-Eastern Norway)	Paper#72: 6.3.1 / An MBSE Architectural Framework for Inter-Satellite Communication in a Multiorbit Disaggregated System Awele Anyanun (Georgia Tech Research Institute); Peter Adejokun (Lockheed Martin Aeronautics); Matthew Hause (System Strategy Inc.)	Presentation#79: 6.4.1 / An Overview of the upcoming Communications Systems Primer: A Systems Engineer's Guide to Communications Networks: Modeling Networks as Systems Susan Ronning (ADCOMM Engineering LLC); Keith Rothschild (Cox Communications); Thomas Manley (Decision Analysis Services Ltd); William Scheible (MITRE Corporation)	Presentation#85: 6.5.1 / Culture of Inquiry: Forming the Systems Engineering Mind Enanga Fale (University of Charleston / Northrop Grumman Corporation)	Invited Content#TOIC#3: 6.6 / MBSE Lightning Round: MBSE Implementation progress reports from the field Moderator:Mark Sampson (INCOSE); Panelists: Robert Halligan (PPI); Elise Higgins (Medtronic); Emilee Bovre (NASA);	
13:15	13:55	16:15	16:55	21:15	21:55	22:15	22:55	1:45	2:25	4:15	4:55	5:15	5:55	6:15	6:55		Paper#46: 6.2.2 / Construction System Failures: Frame Notation of Project Pathogens and their Propagation Across Time and System Hierarchy Takaharu Igarashi, Karen Marais (Purdue University)	Paper#91: 6.3.2 / A Data-Centric System Architecture Model Development Process Emphasizing Rapid Tempo and Quality Chris Swickline, Heidi Jugovic (SAIC)	Presentation#40: 6.4.2 / Delivering Systems Engineering in practice Duncan Kemp (Ministry of Defence)	Presentation#62: 6.5.2 / Cultural Influences on Systems Engineering Ahmad Alsudairi, Azmin Shakrine Mohd Rafie (Universiti Putra Malaysia); Abdullah Algarni (NES); Syaril Azrad, Ezanee Gires (Universiti Putra Malaysia)				

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Wednesday at IS 2022

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US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney											
05:00	06:30	08:00	09:30	13:00	14:30	14:00	15:30	17:30	19:00	20:00	21:30	21:00	22:30	22:00	23:00	23:30	0:00	Keynote	Keynote - Plenary#K3: P3 / The Power of connection: The power of influencing and how to do it Laura Doughty (Director Peakfield Consultancy Ltd and currently Head of Culture and Engagement, Project Delivery Directorate, Sellafield Ltd)						
06:30	7:00	09:30	10:00	14:30	15:00	15:30	16:00	19:00	19:30	21:30	22:00	22:30	23:00	23:30	0:00		Break								
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney				President Invited Content	Digital Engineering	MBSE Standards	Product Line Engineering	Complexity, Processes, Enterprise SE	Academia, Teaching and Training		
																	Mark Sampson	Satyanarayana Kokkula	Jimmie McEver, Susan Ronning	Eric Belle	Gregory Parnell				
7:00	7:40	10:00	10:40	15:00	15:40	16:00	16:40	19:30	20:10	22:00	22:40	23:00	23:40	0:00	0:40		Invited Content#PIC#3: 7.1 / How to be an Effective DEI Ally and Advocate	Paper#108: 7.2.1 / Digital Engineering Environments: A Digital Engineering Perspective	Presentation#70: 7.3.1 / How to faithfully model systems composed of millions of parts?	Paper#64: 7.4.1 / Practical Experience Applying Feature-based Product Line Engineering in a DevOps Environment: Achieving the Best of Both Worlds	Paper#129: 7.5.1 / Managing Complexity through Collaborative Intelligence	Paper#41: 7.6.1 / Crafting an Experience-Based Master's Program in Systems Engineering			
7:45	8:25	10:45	11:25	15:45	16:25	16:45	17:25	20:15	20:55	22:45	23:25	23:45	0:25	0:45	1:25		Moderator:Marilee J. Wheaton (Systems Engineering Fellow, The Aerospace Corporation and INCOSE President); Panelists: Sami Rodriguez, Brandi Gerstner, Jimmy La, Calvin Montgomery, Jonathan Oberland, Jorge Pena (Deloitte Consulting LLC)	Samuel Boutin (Knowledge Inside)	Chris Pedone (VT Group (VTG)); David Hartley, Rowland Darbin (General Dynamics Mission Systems); Paul Clements (BigLever Software, Inc.)	Mary El Maa, Alexander Derkatsch, Dianne Deturris (California Polytechnic State University)	Marshall Bronston, Joe Angel, Brian Berenbach, Jeremy Doerr (Georgia Institute of Technology)				
8:30	9:10	11:30	12:10	16:30	17:10	17:30	18:10	21:00	21:40	23:30	0:10	0:30	1:10	1:30	2:10			Paper#42: 7.2.2 / Automation through Digital Engineering and Digital Twins	Presentation#47: 7.3.2 / ISO/IEC/IEEE 24641 MBSSE standard	Paper#114: 7.4.2 / Two Variant Modeling Methods for MBPLE at Airbus	Paper#34: 7.5.2 / System Engineering Heuristics for Complex Systems	Paper#58: 7.6.2 / Red-Teaming as a Research Method for Systems Engineering Thesis Students			
9:10	10:30	12:10	13:30	17:10	18:30	18:10	19:30	21:40	23:00	0:10	1:30	1:10	2:30	2:10	3:30			Jeren Browning, Kaleb Houck, Katie Wilsdon, Adam Pluth, Joshua Hansel (Idaho National Laboratory)	Lalitha Abhaya (Airbus Defense and Space); Robert Malone (Boeing); Eric Gauthier (Thales Group)	Marco Forlingieri (Airbus); Tim Weiklens (Oose)	Dean Beale (University of Bristol); Dorothy McKinney (Lockheed Martin (Retired)); Rudolph Oosthuizen (University of Pretoria); Gary Smith (International Society for System Sciences); Michael Watson (NASA Marshall Space Flight Center)	Tim Ferris, Fanny Camelia (Cranfield University); Rogerio Machado (Brazilian Navy); Tuomas Mattsson (The Finnish Defence Forces)			
10:30	11:10	13:30	14:10	18:30	19:10	19:30	20:10	23:00	23:40	1:30	2:10	2:30	3:10	3:30	4:10			Paper#66: 7.2.3 / Empowering Engineers in a Digital Engineering Transition: Applying organizational psychology and systems thinking approaches to define the problem and to develop recommended actions	Paper#69: 7.3.3 / The ISO-15288 technical processes, system maturity and conceptual gaps	Presentation#84: 7.4.3 / From Systems Engineering to System Family Engineering	Paper#131: 7.5.3 / A Surrogate Model Approach for Studying Performance and Cycle Time in Complex System Development	Paper#92: 7.6.3 / Plug-and-Play Adaptive Approach to Integrating Model-Based Systems Engineering Concepts into Academic Curriculum			
11:15	11:55	14:15	14:55	19:15	19:55	20:15	20:55	23:45	0:25	2:15	2:55	3:15	3:55	4:15	4:55			Keith Collyer (Retired); Liz Wright, Alexander Hill (Costain Group plc)	Charles Krueger (BigLever Software)	Stephanie Chiesi (SAIC and Stevens Institute of Technology and SAIC); Paul Grogan (Stevens Institute of Technology)	Leonardo Marcos, Tiantian Li, Wanju Huang, Kerrie Douglas, Audeen Fentiman, Daniel DeLaurentis, C. Robert Kenley (Purdue University)				
12:00	12:30	15:00	15:30	20:00	20:30	21:00	21:30	0:30	1:00	3:00	3:30	4:00	4:30	5:00	5:30										
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney											
																	Brown field / Legacy Systems		Architecture Design	Requirements	Systems of Systems	Verification/Validation			
																	Ali Raz, Ken Patak		Angela Robinson	Tami Katz	Amy Thompson	Duncan Kemp, Eric Belle			
10:30	11:10	13:30	14:10	18:30	19:10	19:30	20:10	23:00	23:40	1:30	2:10	2:30	3:10	3:30	4:10			Paper#95: 8.1.1 / Leveraging the Systems Engineering Life Cycle Process for Reverse Engineering	Panel#3: 8.2.1 / Institutional Change and the Evolution of Systems Engineering	Presentation#65: 8.3.1 / Connecting the Systems Lifecycle through Architecture-Driven Engineering	Presentation#38: 8.4.1 / Requirements Management framework for program RFQ phase	Paper#126: 8.5.1 / Multi-Disciplinary Insights into Measurement and Assessment for SoS	Paper#124: 8.6.1 / Formalizing the Representativeness of Verification Models using Morphisms		
																		Moderator:Joseph Bradley (Leading Change, LLC); Panelists: Amy Eddy, Jeremy Daily (Colorado State University)	David Long (Blue Holon)	Max Franklin, Enoch Lee (INVENSITY Inc.)	Jaci Pratt (DST Group); Stephen Cook (Shoal Group Pty Ltd)	Paul Wach, Peter Beling (Virginia Tech); Alejandro Salado (University of Arizona)			
11:15	11:55	14:15	14:55	19:15	19:55	20:15	20:55	23:45	0:25	2:15	2:55	3:15	3:55	4:15	4:55			Paper#89: 8.1.2 / Don't mix the tenses: Managing the present and the future in an MBSE context		Presentation#82: 8.3.2 / Functional Architectures using SysML	Presentation#23: 8.4.2 / SMART Traceability	Paper#87: 8.5.2 / Framework for Complex SoS Emergent Behavior Evolution Using Deep Reinforcement Learning	Paper#33: 8.6.2 / Mindful Maturation Matters		
																	Erik Herzog (SAAB AB); Johanna Axehill (Saab AB)	James Hummell (MBSE Solutions)	Davy Masson (SAFRAN Aircraft Engines); José Fuentes (The REUSE Company)	Ramakrishnan Raman (Honeywell Technology Solutions); Anitha Murugesan (Honeywell Aerospace)	Richard Beasley (Rolls Royce plc); Paul Eastwood, Hazel Woodcock (Costain Group plc)				
12:00	12:30	15:00	15:30	20:00	20:30	21:00	21:30	0:30	1:00	3:00	3:30	4:00	4:30	5:00	5:30										
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney											
																	Infrastructure	Digital Engineering	Architecture Design	Space Value		Regional Survey			
																	Michael Watson	Satyanarayana Kokkula, Mark Sampson	Heather Feli, Paul Schreinemakers	Daniel Siegl		Rick Hefner			
12:30	13:10	15:30	16:10	20:30	21:10	21:30	22:10	1:00	1:40	3:30	4:10	4:30	5:10	5:30	6:10			Presentation#10: 9.1.1 / Use of Systems Engineering in Repurposing Coal-Fired Power Plants with Malta Pumped Thermal Energy Storage System	Paper#24: 9.2.1 / Digital Transformation in Acquisition: Using Modeling and Simulation to Advance the State of Practice	Paper#28: 9.3.1 / Using Design Structure Matrices (DSMs) to Derive System Architectures	Presentation#46: 9.4.1 / Space Policy Insights: A System Dynamics Model-based Assessment of the growing NewSpace Ecosystem	Panel#2: 9.5 / Systems of Systems and Complexity Roundtable	Presentation#72: 9.6.1 / 10 years of Creation and Evolution of INCOSE BRASIL, the first INCOSE Chapter in Latin America.		
																			Bao Truong (Malta Inc.)	Eric Dano (BAE SYSTEMS)	Dan Erkel, Alexander Hillman (Massachusetts Institute of Technology)	Judith Dahmann (The MITRE Corporation); Ali Raz (George Mason University); Dan DeLaurentis (Purdue University); Stephen Cook (The University of Adelaide and The Shoal Group); Jakob Axelsson (Mälardalen University and RISE Research Institutes of Sweden)	George Sousa (Engelux); Joao Antonio Prado (Embraer); Fabio Silva (Oceaneering International)		
13:15	13:55	16:15	16:55	21:15	21:55	22:15	22:55	1:45	2:25	4:15	4:55	5:15	5:55	6:15	6:55			Paper#83: 9.1.2 / Investigating Systems Engineering Approaches in the Construction Industry: A Multi-Case Study	Paper#119: 9.2.2 / Realizing the Promise of Digital Engineering: Planning, Implementing, and Evolving the Ecosystem	Paper#82: 9.3.2 / Genesis – an Architectural Pattern for Federated PLM	Paper#51: 9.4.2 / Advanced Statistical Methods in Spacecraft Flight Software Cost Estimation: Bayesian Regression and Nonlinear Principal Components Analysis to Support System Engineering in the Early Project Lifecycle		Presentation#59: 9.6.2 / Insights from the First 'State of Systems Engineering in India' Survey		
																			Tobias Fredrik Lynghaug, Satyanarayana Kokkula, Gerrit Muller (University of South-Eastern Norway)	William Schindel (ICTT System Sciences)	Erik Herzog, Johan Tingström, Åsa Nordling Larsson (Saab Aeronautics)	Samuel Fleischer, Jairus Hihn (NASA / Jet Propulsion Laboratory); James Johnson (NASA)	Devanandham Henry, Stueti Gupta (BlueKei Solutions Pvt. Ltd.); Yogananda V Jeppu, Mudit Mittal (INCOSE-India)		

IS2022 Schedule

Thursday at IS 2022																							
Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time	Start time	End time				
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney		Session 10							
04:30	05:15	08:00	08:40	12:30	13:15	13:30	14:15	17:00	17:45	19:30	20:15	20:30	21:15	21:30	22:15								
05:15	06:00	08:45	09:25	13:15	14:00	14:15	15:00	17:45	18:30	20:15	21:00	21:15	22:00	22:15	23:00								
06:00	6:35	09:30	10:00	14:00	14:35	15:00	15:35	18:30	19:05	21:00	21:35	22:00	22:35	23:00	23:35								
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney									
6:30	7:15	10:00	10:40	14:30	15:15	15:30	16:15	19:00	19:45	21:30	22:15	22:30	23:15	23:30	0:15								
7:15	8:00	10:45	11:25	15:15	16:00	16:15	17:00	19:45	20:30	22:15	23:00	23:15	0:00	0:15	1:00								
8:00	8:45	11:30	12:10	16:00	16:45	17:00	17:45	20:30	21:15	23:00	23:45	0:00	0:45	1:00	1:45								
8:40	10:05	12:10	13:30	16:40	18:05	17:40	19:05	21:10	22:35	23:40	1:05	0:40	2:05	1:40	3:05								
US West Coast		US East Coast		UK		Europe		India		China Hongkong		Korea and Japan		Australia Sydney									
10:00	11:35	13:30	15:00	18:00	19:35	19:00	20:35	22:30	0:05	1:00	2:35	2:00	3:35	3:00	4:35								
Keynote - Plenary#K4: Closing / Ford's Connected-Agile, Model Based Systems Engineering and Simulation Journey....so far. Christopher Davey (Ford Motor Company)																							
Plenary																							