IS2021 Schedule

Saturday at IS 2021

Start	End	Start		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End		Track 1	Track 2	Track 3	Track 4	Track 5
1	time West	time US I	East	time	time K	time	time rope	time	time dia	Ch	time nina	time Korea		time Aust			Track I	Truck 2	Truck 0	Truck 4	Truck 5
	09:00	08:00									gkong 00:00	Jap 21:00		22:00		Session A	Tutorial#26: A.1 / 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#21: A.2 / From Operational Concept Development to Systems Architecture Definition with SysML and MBSE Grid approach Aurelijus Morkevicius, Aiste Aleksandraviciene (Dassault Systemes)	Tutorial#7: A.3 / Overview of the INCOSE SE Handbook Version 4.0 John Clark (Old Dominion University); Gabriela Coe (Northrop Grumman Corporation, Space Systems)	Tutorial#20: A.4 / Handling Organizational Complexity Dean Beale (University of Bristol)	Tutorial#25: A.5 / Introduction to Model Simulation and Engineering Analysis with SysML Saulius Pavalkis, Nerijus Jankevicius (Dassault Systemes)
09:00	10:00	12:00	13:00	17:00	18:00	18:00	19:00	21:30	22:30	0:00	1:00	1:00	2:00	2:00	3:00	Break					
10:00	11:00	13:00	14:00	18:00	19:00	19:00	20:00	22:30	23:30	1:00	2:00	2:00	3:00	3:00	4:00		Tutorial#15: C.1 / Systems Security Engineering: A Loss-Driven Focus Mark Winstead (MITRE); Michael	Tutorial#24: C.2 / Modeling and Analysis of Standard Operating Procedures	Tutorial#23: C.3 / Leadership Skills for Systems Engineers David Walden (Sysnovation, LLC)		
11:00	12:00	14:00	15:00	19:00	20:00	20:00	21:00	23:30	0:30	2:00	3:00	3:00	4:00	4:00	5:00		McEvilley (The MITRE Corporation); Daryl Hild (MITRE)	Jomana Bashata, Lance Sherry (Center for Air Transportation Systems Research at George Mason University); Steven Dam (SPEC Innovations)			
12:00	14:00	15:00	17:00	20:00	22:00	21:00	23:00	0:30	2:30	3:00	5:00	4:00	6:00	5:00	7:00	Session C				Tutorial#19: C.4 / Applied Systems Theory to Enhance Systems Engineering Practice for Complex Systems	
14:00	15:00	17:00	18:00	22:00	23:00	23:00	0:00	2:30	3:30	5:00	6:00	6:00	7:00	7:00	8:00					Charles Keating (Old Dominion University); Richard Hodge (<u>DrRichardHodge.com</u>); Joseph Bradley (Leading Change, LLC)	
15:00	16:00	18:00	19:00	23:00	0:00	0:00	1:00	3:30	4:30	6:00	7:00	7:00	8:00	8:00	9:00						

Sunday at IS 2021

																Su	ınday at IS 2021				
Start	End		End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End		Track 1	Track 2	Track 3	Track 4	Track 5
time US V	time	time	time East	time	time ina	time	time	time	time tralia												
Co		1	⊏ası ast	U	K	Eu	rope	In	dia	1	gkong	Korea Jap		1	tralia Iney						
			12:00	13:00	17:00	14:00	18:00	17:30	21:30							Session E	Tutorial#26: E.1 / 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#21: E.2 / From Operational Concept Development to Systems Architecture Definition with SysML and MBSE Grid approach Aurelijus Morkevicius, Aiste Aleksandraviciene (Dassault Systemes)	Tutorial#7: E.3 / Overview of the INCOSE SE Handbook Version 4.0 John Clark (Old Dominion University); Gabriela Coe (Northrop Grumman Corporation, Space Systems)	Dean Beale (University of Bristol)	Tutorial#25: E.5 / Introduction to Model Simulation and Engineering Analysis with SysML Saulius Pavalkis, Nerijus Jankevicius (Dassault Systemes)
09:00	10:00	12:00	13:00	17:00	18:00	18:00	19:00	21:30	22:30	0:00	1:00	1:00	2:00	2:00	3:00	Break					
10:00	11:00	13:00	14:00	18:00	19:00	19:00	20:00	22:30	23:30	1:00	2:00	2:00	3:00	3:00	4:00		Tutorial#15: G.1 / Systems Security Engineering: A Loss-Driven Focus Mark Winstead (MITRE); Michael McEvilley (The MITRE Corporation):		Tutorial#23: G.3 / Leadership Skills for Systems Engineers David Walden (Sysnovation, LLC)		
11:00	12:00	14:00	15:00	19:00	20:00	20:00	21:00	23:30	0:30	2:00	3:00	3:00	4:00	4:00	5:00		Daryl Hild (MITRE)				
12:00	14:00	15:00	17:00	20:00	22:00	21:00	23:00	0:30	2:30	3:00	5:00	4:00	6:00	5:00	7:00	Session G				Tutorial#19: G.4 / Applied Systems Theory to Enhance Systems Engineering Practice for Complex Systems	
14:00	15:00	17:00	18:00	22:00	23:00	23:00	0:00	2:30	3:30	5:00	6:00	6:00	7:00	7:00	8:00					Charles Keating (Old Dominion University); Richard Hodge (<u>DrRichardHodge.com</u>); Joseph Bradley (Leading Change, LLC)	
15:00	16:00	18:00	19:00	23:00	0:00	0:00	1:00	3:30	4:30	6:00	7:00	7:00	8:00	8:00	9:00						

																Monday at IS 2021				
End time	time	e 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
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			13:00	14:30	14:00	15:30	17:30	19:00							Keynote	Victoria Coleman (USAF C				alifornia Former Director of
7:00	09:3	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					
	1			lk	Fu	rone	Inc	dia	1								MBSE, System Architecture/Design	Energy (renewable nuclear etc.)	System Security, Defense, System Architecture/	TechOps Invited Content
ıst		Coast	_		Lu	Поре			Hong	gkong	Ja	pan 	Syc	ney			Definition	Energy (renewable, nuclear, etc.)	Design Definition	Toonops invited content
																Panel#2: 1.1 / Systems Engineering at the Hello – Frameworks for Applying Systems Engineering in Early Stage R&D	Paper#116: 1.2.1 / Model-Based Systems Product Line Engineering of Physical Protection Systems	Paper#40: 1.3.1 / Conceptual modeling of energy storage systems	UAF	Vee or not to Vee
7:40	10:0	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		Moderator:Heidi Ann Hahn (New Mexico Tech); Panelists: Nick Lombardo (Pacific Northwest National Laboratory); Michael	Bedir Tekinerdogan (Wageningen University); Murat Kaan Özcan, İskender Yakin, Sevil Yağız (Aselsan)	Muller (University of South-Eastern Norway)	Lars-Olof Kihlström (Syntell AB)	Jon Wade
															Session 1	DiMario (Astrum Systems); Ann Hodges (Sandia National Laboratories); Frédéric Autran (Airbus Defence & Space);	Paper#52: 1.2.2 / Applying Systems Engineering framework for architecting a Smart Parking System within a Smart City	Paper#58: 1.3.2 / Conceptual Modelling of Seasonal Energy Storage Technologies for Residential Heating in a Dutch town Best	Paper#18: 1.4.2 / Experience in Designing for Cyber Resiliency in Embedded DoD Systems Jennifer Barzeele (Baytheon Intelligence and	
8:25	10:4	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			Nikhil Joshi (HCL Technologies); Mudit Mittal (BlueKei Solutions Pvt. Ltd.); Yatin Jayawant (John Deere India Pvt Ltd.); Pradip Salunkhe, Meena Hattarge (Eaton)	Erik Drilen, Elisabet Syverud (University of South-Eastern Norway)	Space); Kit Siu (General Electric Research); Mike Robinson, Liana Suantak, John Merems (Raytheon Missiles and Defense); Michael Durling, Abha Moitra, Baoluo Meng (General Electric Research); Patrice Williams (Raytheon Intelligence and Space); Daniel J. Prince (GE	
12:30	11.2	30 12:30	16:30	17:30	17:30	18:30	21:00	22:00	23:30	0:30	0:30	1:30	1:30	2:30	Break				Aviation)	
															Dicar	B :1 11 3 10 1 1	MDCE Discours	F., CF	Aeropace, Defense, System Architecture/	Tank One Invited Content
ıst	(Coast	-	JK 	Eu	rope	inc	dia 	Hong	gkong	Ja	pan	Syc	ney		President invited Content	MBSE, Processes	FUSE	Modeling	TechOps Invited Content
																Invited Content#Inv#1: 2.1 / Viewing Grand Challenges as a System	Paper#54: 2.2.1 / A value-driven, integrated approach to Model-Based Product Line Engineering		1 1 1	Invited Content#4: 2.5.1 / Spectacular View of the City
10:10	12:3	30 13:10	17:30	18:10	18:30	19:10	22:00	22:40	0:30	1:10	1:30	2:10	2:30	3:10		Moderator:Tom McDermott; Panelists: Shriya Das; Al George (Cornell); Bob Kenley (Purdue); Julian Johnson (Holistem); Cecilia Haskins (NTNU);	Juan Navas (Thales Corporate Engineering); Stephane Bonnet (Thales Avionics Technical Directorate); Jean-Luc Voirin (Thales Airborne Systems / Thales Technical Directorate); Hugo Guillermo Chale Gongora (Thales Corporate Engineering)	Keith Willett (Dept of Defense); Rick Dove (Self); Alan Chudnow, Emmet Eckman (Northrop Grumman); Larri Rosser (Raytheon); Jennifer Stevens (NASA); Robin Yeman (Lockheed Martin); Michael Yokell (Raytheon)	James Martin (The Aerospace Corporation)	Jon Mooney (ACOUSTICS BY JW MOONEY LLC)
															Session 2		Paper#20: 2.2.2 / Formulas and Guidelines for Deriving Functional System Requirements from a Systems Engineering Model	Paper#49: 2.3.2 / Security in the Future of Systems Engineering (FuSE), a Roadmap of Foundation Concepts	,	Invited Content#TechOps#3: 2.5.2 / S.O.S for FSS: The need for Systems of Systems (SoS) Thinking per Financial Services Architectures, both Current and Emerging.
10:55	13:1	15 13:55	18:15	18:55	19:15	19:55	22:45	23:25	1:15	1:55	2:15	2:55	3:15	3:55			John Shelton, Victoria Heisler, Kristina Sebacher (Johns Hopkins University, Applied Physics Lab)	Rick Dove (Independent); Keith Willett (U.S. Department of Defense); Tom McDermott (Systems Engineering Research Center); Holly Dunlap (Raytheon Technologies); Delia MacNamara (Australian Government); Cory Ocker (Baytheon Technologies)	Lalitha Abhaya (Airbus Defence and Space)	Gina Guillaume-Joseph, Bradford Leigh
11:40	14.0	00 14:40	19:00	19:40	20:00	20:40	23:30	0:10	2:00	2:40	3:00	3:40	4:00	4:40			Paper#130: 2.2.3 / Is CAD A Good Paradigm for MBSE?	` ,		
	•		10.00	10.10	20.00	20.10	20.00	0.10	2.00	2.10	0.00	0.10	1.00				Kaitlin Henderson, Alejandro Salado (Virginia Tech)	Keith Willett (U.S. Department of Defense)	James Martin (The Aerospace Corporation); David O'Neil (SAIC)	Alan Harding, Alice Squires
15:00	14:4	40 15:10	19:40	20:10	20:40	21:10	0:10	0:40	2:40	3:10	3:40	4:10	4:40	5:10	Break				2 3.1.0 2 1.0.1 (5.1.0)	
																Systems Competency/ Teaching/Training	MDCE		Custom Coqueity Defense	TechOps Invited Content
ıst		Coast	').V	Eu	Tope	ind	uid	Hong	gkong	Ja	pan	Syc	ney		Systems Competency/ reaching/training	INIDOE		System Security, Detense	rechops invited Content
																Paper#76: 3.1.1 / Developing a Topic Network of Published Systems Engineering Research	Presentation#3: 3.2.1 / How do we know that we know? - A Model-Based- Knowledge-Management Concept	Panel#8: 3.3 / Heuristics for Systems Engineering: Useful or Dangerous? Outdated or Enduring?	Paper#47: 3.4.1 / Insights for Systems Security Engineering from Multilayer Network Models	Invited Content#TechOps#5: 3.5 / Panel: SysML 1.7 to 2.0
12:50	15:1	10 15:50	20:10	20:50	21:10	21:50	0:40	1:20	3:10	3:50	4:10	4:50	5:10	5:50	Session 3	Rudolph Oosthuizen (CSIR)	supporting digital effectiveness Robert Nilsson (Volvo Cars Corporation)	Moderator:Dorothy McKinney (Advanced Systems Thinking, Inc.); Panelists: Gan Wang (BAE Systems); Robert Halligan (PPI);	Adam Williams, Gabriel Birch, Susan Caskey, Elizabeth Fleming, Thushara Gunda, Thomas Adams, Jamie Wingo (Sandia National Laboratories)	Daniel Siegl
																Presentation#7: 3.1.2 / Systems Engineering Professional Certification Standard	Presentation#16: 3.2.2 / Providing truth, trust and traceability to MBSE	University (retired)); Chandru Mirchandani	Beveeeps Tielerenee Besign	
13:35	15:5	55 16:35	20:55	21:35	21:55	22:35	1:25	2:05	3:55	4:35	4:55	5:35	5:55	6:35		Ray Hentzschel (Systems Engineering Society of Australia)			Ryyan Reule, Brynn Feighery (U.S. Air Force Academy); Mark Winstead, Daryl Hild, Will Barnum (MITRE); Martin Span (U.S. Air Force Academy)	
15:00	16:3	35 16:45	21:35	21:45	22:35	22:45	2:05	2:15	4:35	4:45	5:35	5:45	6:35	6:45	Break					
14:30	16:4	45 17:30	21:45	22:30	22:45	23:30	2:15	3:00	4:45	5:30	5:45	6:30	6:45	7:30				Sponsors Track		
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Start End time	1			End time	Start time		art En ne tim					End Statime tim			Track 1	Track 2	Track 3	Track 4	Track 5
US West Coast	1	S East Coast	U	ĸ	Euro	рре	India	Н	China longkor	· I	Korea a Japar	I .	Australia Sydney						
04:00 04:45	5 07:0	0 07:45	12:00	12:45	13:00	13:45 16	:30 17:		Ĭ		<u> </u>						Sponsors Track		
05:45 06:00			13:45	14:00	14:45	15:00 18	:15 18:0	30 20:	:45 21	1:00 2	21:45 2			Break					
US West Coast	1	S East Coast	U	ĸ	Euro	рре	India	Н	China longkor		Korea a Japar	I .	Australia Sydney						
05:00 06:3	80 08:0	0 09:30	13:00	14:30	14:00	15:30 17	:30 19:0	00 20:	:00 21	1:30 2	1:00 2	2:30 22:	00 23:30	Keynote	Masayoshi Arai (Director-G	-	(2: K2 / The role of architecture in ation Policy Bureau Ministry of	in achieving Society 5.0 Economy, Trade and Industry (Mi	ETI), Government of Japan)
06:30 7:00	09:3	0 10:00	14:30	15:00	15:30	16:00 19	:00 19:0	30 21:	:30 22	2:00 2	2:30 2	3:00 23:	30 0:00	Break					
US West Coast	I	S East Coast	U	К	Euro	рре	India	Н	China		Korea a	l l	Australia Sydney		Autonomous Systems, Artificial Intelligence/ Machine Learning	Industry 4.0 & Society 5.0, Social/ Sociotechnical and Economic Systems	Oil & Gas		Infrastructure, Needs and Requirements Definition, City Planning
7:00 7:40	10.0	0 10:40	15:00	15:40	16:00	16:40 10	.30 20.	10 22:	.00 20	2:40	93:00	3:40 0:0	00 0:40		Paper#110: 4.1.1 / Framework for Formal Verification of Machine Learning Based Complex System-of-System	Presentation#14: 4.2.1 / Conflict is your friend- Managing healthy conflict in the systems engineering workplace	Paper#4: 4.3.1 / Developing domain-specific Al-based tools to boost cross-enterprise knowledge reuse and improve quality	Panel#3: 4.4 / A Framework for Understanding Systems Engineering Principles and Heuristics Moderator:Peter Brook (Dashwood Systems	Paper#88: 4.5.1 / Requirement Patterns in the Construction Industry Ron Claghorn, Hussam Shubayli (Saudi
7.00 7.40	10.0	10.40	15.00	15.40	10.00	10.40	.30 20.	10 22.	.00 22	2.40 2	.5.00 2	3.40 0.0	0.40	Session 4	Ramakrishnan Raman, Nikhil Gupta, Yogananda Jeppu (Honeywell Technology Solutions Lab)	Zane Scott (Vitech)	Sajjad Sarwar (MHWirth); Cecilia Haskins (NTNU / USN)	Engineering); Panelists: Michael Pennotti (Stevens Institute of Technology); David Rousseau (Centre for Systems Philosophy);	Arabia Bechtel Company)
																Presentation#15: 4.2.2 / Making Your Case- Negotiation and persuasion for the systems engineer			Paper#95: 4.5.2 / Demonstrating the Value of Systems Engineering as the Professional Standard of Care
7:45 8:25	5 10:4	5 11:25	15:45	16:25	16:45	17:25 20	:15 20:8	55 22:	:45 23	3:25 2	23:45	0:25 0:4	1:25		Hanqing Zhu (Georgia Institute of Technology); Eric Feron (King Abdullah University of Science and Technology)	Zane Scott (Vitech)	Eirik Fallrø, Kristin Falk (University of South- Eastern Norway)		Oliver Hoehne (WSP USA)
8:30 9:30	11:3	0 12:30	16:30	17:30	17:30	18:30 21	:00 22:0	00 23:	:30 0):30	0:30	1:30 1:0	30 2:30	Break					
US West Coast		S East Coast	U	K	Euro	ppe	India	Н	China longkor		Korea a Japar	I .	Australia Sydney		President Invited Content	Industry 4.0 & Society 5.0, Social/ Sociotechnical and Economic Systems, Information Management	Oil & Gas, Maritime	Systems Sciences, Systems Thinking	Modeling/Simulation/Analysis, Resilience
															Invited Content#Inv#2: 5.1 / DE meets SE:	Presentation#20: 5.2.1 / System Holarchy		Presentation#25: 5.4.1 / Systems Engineering –	Paper#24: 5.5.1 / Employing a Model Based
															Building a Joint Culture	Structures for Sustainable Development Goals	offshore oil and gas industry following a worldwide pandemic	A Matter of Perspectives	Conceptual Design Approach to Design for Resilience
9:30 10:10	0 12:3	0 13:10	17:30	18:10	18:30	19:10 22	:00 22:4	40 0:3	30 1	:10	1:30 2	2:10 2:0	30 3:10		Moderator:Troy Peterson; Panelists: Philomena Zimmerman;	Maya Narayan, Anshul Agrawal (Holon Perspectives)	Mo Mansouri, Kristian Frederik Wedel Jarlsberg (University of South-Eastern Norway)	David Long (Vitech Corporation)	David Flanigan (The Johns Hopkins University Applied Physics Laboratory); Kevin Robinson (Shoal Group)
														Session 5		Paper#37: 5.2.2 / Unlocking the power of big data within the early design phase of the new product development process.	principles in a supplier to the oil and gas industry	Paper#128: 5.4.2 / An Assessment of the Adequacy of Common Definitions of the Concept of System	Paper#16: 5.5.2 / Evaluation of Requirements Management Processes Utilizing System Modeling Language (SysML) Executable Models
10:15 10:55	5 13: 1	5 13:55	18:15	18:55	19:15	19:55 22	:45 23:2	25 1:1	15 1	:55	2:15 2	2:55 3:	15 3:55			Haytham B. Ali (University of South-Eastern Norway (USN)); Fredrik H. Helgesen (University of South-Eastern Norway); Kristin Falk (University of South-Eastern Norway (USN))	Jenny Camilla Hårstadsveen, Satyanarayana Kokkula (University of South-Eastern Norway)	Alejandro Salado, Adityau. Kulkarni (Virginia Tech)	Tami Katz (Ball Aerospace)
																Paper#79: 5.2.3 / Opportunities and Challenges of Sociotechnical Systems Engineering	Paper#75: 5.3.3 / Application of A3 Architecture Overviews in Subsea Front-End Engineering Studies: A Case Study	Paper#106: 5.4.3 / Systems Thinking: A Critical Skill for Systems Engineers Charles Keating (Old Dominion University);	Paper#102: 5.5.3 / Resilience Requirements Patterns John Brtis, Michael McEvilley, Michael
11:00 11:40	0 14:0	0 14:40	19:00	19:40	20:00	20:40 23	:30 0:1	2:0	00 2	2:40	3:00	3:40 4:0	00 4:40			John Gill (Scientific System Company, Incorporated); Avigdor Zonnenshain (Neaman Institute for National Policy Research); Danielle Lamoureux (MS Data Science)	Remi Haugland, Siv Engen (University of South-Eastern Norway)	Polinpapilinho Katina (University of South Carolina Upstate); Raed Jaradat (Mississippi State University); Richard Hodge (DrRichardHodge.com)	Pennock (The MITRE Corporation)
11:40 12:10	0 14:4	0 15:10	19:40	20:10	20:40	21:10 0:	10 0:4	10 2:4	40 3	3:10	3:40	4:10 4:4	40 5:10	Break					
US West Coast	I	S East Coast	U	К	Euro	рре	India	Н	China		Korea a	l l	Australia Sydney		MBSE		Risk and Opportunity Management	Social Systems/ Resilience	Systems Modeling/ Infrastructure Management
12:10 12:50	0 15	0 15.50	20.10	20:50	21:10	21:50 0:	40 1.2	00 2.1	10 2	3:50	4.10	4:50 5: ⁻	10 5:50		Paper#42: 6.1.1 / From UAF to SysML: Transitioning from System of Systems to Systems Architecture	Panel#7: 6.2 / Solving the Digital Engineering Information Exchange Challenge	Paper#30: 6.3.1 / The risk maturity model: a new tool for improved risk management and feedback	Paper#55: 6.4.1 / Dealing with COVID-19 Pandemic in Complex Societal System for Resilience Study: A Systems Approach	Presentation#23: 6.5.1 / A Systems Theory Approach to Building Management
12.10 12.30	13.	13.50	20.10	20.00	£1.1U	21.00 0.	70 1.2	.0 0.1	.0 0	,	r.10 '	1.50	3.30	Session 6	Aurelijus Morkevicius, Aiste Aleksandraviciene, Gintare Krisciuniene	Moderator:Terri Chan (Boeing Commercial Airplanes); Panelists: Philomena Zimmerman (US DoD); Celia Tseng	Brede Aas-Haug (Norwegian DoD); Cecilia Haskins (NTNU / USN)	Bijun Wang, Mo Mansouri (Stevens Institute of Technology)	Jonathan Coburn (KBR)
															Paper#99: 6.1.2 / Verification and Validation of SysML Models	(Raytheon); Sean McGervey (John Hopkins University Applied Physics Laboratory);	Paper#41: 6.3.2 / Predicting failure events from crowd-derived inputs: schedule slips and	Paper#9: 6.4.2 / Why Systems Engineers May Have an Edge When It Comes to Personal	
12:55 13:35	5 15 :	5 16:35	20:55	21:35	21:55	22:35 1:	25 2:0)5 3:5	55 4	:35 /	4:55	5:35 5:5	55 6:35		Myron Hecht, Jaron Chen (The Aerospace Corporation)	Tamara Hambrick (Northrop Grumman);	missed requirements Georgios Georgalis, Karen Marais (Purdue University)	Resilience Heidi Hahn (New Mexico Tech)	
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Wednesday at IS 2021

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US W Coas		US East Coast	U	K	Europ	e	India	- 1	China ongkong	Korea Jap		Aust Syd			Social/Sociotechnical and Economic Systems	System Architecture/Design Definition, Syetem Requirements	Measurement and Metrics	System Requirements/ Product Line Engineering	
7:00	7:40	10:00 10:40	15:00	15:40 16	6:00 1	6:40 19	9:30 20:10	0 22:0	00 22:40	23:00	23:40			Session 7	Paper#27: 7.1.1 / Putting the Social in Systems Engineering: An Overview and Conceptual Development Erika Palmer (CIRiS-Centre for Interdisciplinary Research in Space); Donna Rhodes (Massachusetts Institute of Technology); Michael Watson (NASA Marshal Space Flight Center); Cecilia Haskins (NTNU / USN); Camilo Olaya (Universidad de los Andes); Ian Presland (Charterhouse Systems Limited); Knut Fossum (CIRiS-Centre for Interdisciplinary	Paper#62: 7.2.1 / A Framework for Identifying and Managing New Operational Requirements during Naval Vessel Batch-Building Programs Brett Morris (Naval Group)	Presentation#30: 7.3.1 / Defining a Measurement Framework for Digital Engineering Joseph Bradley (Main Sail, LLC)	Paper#11: 7.4.1 / Innovative Approaches to Superset Asset Templates using Feature-Based Product Line Engineering June Kobayashi, Steve Way, Jonathan Krauss (Northrop Grumman Space Systems); Paul Clements (BigLever Software, Inc.)	Panel#1: 7.5 / The MBSE Futurist's Dilemma: Diffusing systems engineering practices in an AI dominated era Moderator:Ramakrishnan Raman (Honeywell); Panelists: Stephen Piggott (Canadian Space Agency); Vincent Arnould (Hensoldt); Juan Navas (Thales Group); Hany Fawzy (Canadian Space Agency);
															Research in Space) Paper#32: 7.1.2 / Social Science Solutions for the Systems Engineer: What's Needed	Paper#115: 7.2.2 / An Elaboration of Service Views within the UAF	Paper#124: 7.3.2 / Measuring performance and identifying metrics of machine protection systems for particle accelerators	Presentation#29: 7.4.2 / Ushering in a New Era for Feature-based Product Line Engineering with the ISO/IEC 26580 International Standard	
7:45	8:25	10:45 11:25	15:45	16:25 16	6:45 1	7:25 20	0:15 20:5	5 22:4	45 23:25	23:45	0:25	0:45	1:25		Charlotte Dunford (Rolls Royce); Erika Palmer (CIRiS-Centre for Interdisciplinary Research in Space); Richard Beasley (Rolls Royce)	Lars-Olof Kihlström (Syntell AB); Matthew Hause (SSI)	Szandra Kövecses, Annika Nordt (Europan Spallation Source ERIC); Dag Bergsjö (Chalmers University of Technology)	Charles Krueger (BigLever Software)	
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US W Coas		US East Coast	U	К	Europ	e	India		China ongkong	Korea Jap		Aust Syd			President Invited Content	Infrastructure, Life-Cycle Costing and/or Economic Evaluation	MBSE	Systems Thinking, Aerospace	Competency/ Teaching/ Training
															Invited Content#Inv#3: 8.1 / Using Systems Thinking to Add Value in these	Paper#46: 8.2.1 / Network Rail's Systems Integration for Delivery (SI4D) Framework	Paper#123: 8.3.1 / Return on Investment in Model-Based Systems Engineering Software Tools	Paper#114: 8.4.1 / Investigation of Remote Work for Aerospace Systems Engineers	Paper#105: 8.5.1 / Systems Thinking in Socially Engaged Design Settings: What
9:30	10:10	12:30 13:10	17:30	18:10 18	8:30 1	9:10 22	2:00 22:4	0 0:3	0 1:10	1:30	2:10	2:30	3:10		Uncertain Times Moderator:Charlotte Dunford; Panelists: Gary Smith (ISSS / Airbus);	Derek Price (Network Rail)	James Duffy, Jingyao Feng, Robert Combs, James Richardson (George Mason University)	Eric van Velzen, Alison Olechowski (University of Toronto)	Can We Learn? Chanel Beebe, C. Robert Kenley (Purdue University)
															Jawahar Bhalla ; Patrick Godfrey ; Suja Joseph-Malherbe ;	Paper#85: 8.2.2 / Using Models and Simulation for Concept Analysis of Electric Roads	Paper#57: 8.3.2 / Application of natural language processing for systematic requirement management in model-based systems engineering	Paper#56: 8.4.2 / From Brownfield to Greenfield Development – Understanding and Managing the Transition	Paper#28: 8.5.2 / The value of trade-off studies for student projects Håkon Kindem (Orbit NTNU); Cecilia
10:15	10:55	13:15 13:55	18:15	18:55 19	9:15 1	9:55 22	2:45 23:2	5 1:19	5 1:55	2:15	2:55	3:15	3:55	Session 8		Lars-Olof Kihlstrom (Syntell AB); Matthew Hause (Systems Solutions Inc (SSI)); Andreas Kihlstrom (BRP Systems AB); Ida Karlsson, Bilin Chen (Syntell AB)	Michael Riesener, Christian Dölle, Annika Kristin Becker (Laboratory for Machine Tools and Production Engineering (WZL), RWTH Aachen); Sofia Gorbatcheva (RWTH Aachen University); Eric Rebentisch (MIT Center for Sociotechnical Systems); Günther Schuh (Laboratory for Machine Tools and Production Engineering (WZL), RWTH Aachen)	Johanna Axehill, Erik Herzog, Johan Tingström (Saab Aeronautics); Marie Bengtsson (Linköping University)	Haskins (NTNU)
																Paper#89: 8.2.3 / Solar Energy Investment Framework for Real Estate in Norway – a Case Study in Systems Engineering	Presentation#28: 8.3.3 / MBSE Components in the Supply Chain, Spring 2021 Student Capstone Project	Paper#94: 8.4.3 / The Systems Engineering Conundrum: Where is the Engineering?	Paper#117: 8.5.3 / The Evolution of HELIX: A Competency Model for Complex Problem Solving
11:00	11:40	14:00 14:40	19:00	19:40 20	0:00 2	0:40 23	3:30 0:10	2:00	0 2:40	3:00	3:40	4:00	4:40			Elisabet Syverud, Karsten Hofstad Bak (University of South-Eastern Norway)	David Hetherington (System Strategy, Inc); Steven Dam (SPEC Innovations)	Charles Wasson (Wasson Strategics, LLC)	Tom McDermott, Nicole Hutchison (Stevens Institute of Technology); Ruth Crick (Jearni Sciences)
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															Presentation#17: 9.1.2 / Economic Analysis of Unmanned Aerial Vehicle (UAV) Platform Options	Paper#78: 9.2.2 / A Method to Visualize the Relationship between Regulations and Architectural Constraints	Product Line Engineering to the Extreme at Raytheon	Paper#8: 9.4.2 / You Don't Save Money by Doing Less Testing – You Save Money by Doing More of the Right Testing!	
12:55	13:35	15:55 16:35	20:55	21:35 21	1:55 2	2:35 1	:25 2:05	3:5	5 4:35	4:55	5:35	5:55	6:35		Abdul Rahman El Fouly (The Boeing)	Yoshiko Ohno, Seiko Shirasaka (Graduate School of System Design and Management ,KEIO University)	Bobbi Young, Tom Sanderson, Matt Thurman, Jeffrey Turpin (Raytheon Missiles & Defense); Elizabeth O'Keefe (DZYNE Technologies); Paul Clements (BigLever Software, Inc.)	Andrew Pickard (Rolls-Royce Corporation); Richard Beasley, Andrew Nolan (Rolls-Royce plc)	
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															Presentation#22: 10.1.1 / System of Systems Modeling to empower decision makers in drone based services - an	Paper#131: 10.2.1 / Towards a Software Defined Truck	Paper#67: 10.3.1 / Idea Development Method, Applying Systems Design Thinking in a Very Small Entity	Presentation#27: 10.4.1 / Why Engineers Should Think More Like Marketers (Sometimes)	Panel#4: 10.5 / Human-Al Teaming: A Human Systems Integration Perspective
05:30	06:10	08:30	9:10 13:	30 14:	10 14	:30 1	5:10 1	8:00 18:40	20:30	21:10	21:30 22	:10 22	2:30 23:1	Session 10	application in Agriculture Mudit Mittal (BlueKei Solution Pvt. Ltd.);	Subhojeet Mukherjee, Jeremy Daily (Colorado State University)	Tommy Langen, Elisabet Syverud (University of South-Eastern Norway)	Barclay Brown (Raytheon Technologies); Honor Lind (Hart Initiative Inc.)	Moderator:Guy Andre Boy (CentraleSupelec (Paris Saclay University) & ESTIA Institute of Technology); Panelists: Nancy Cooke
															Stueti Gupta (BlueKei Solutions Pvt Ltd) Presentation#11: 10.1.2 / Safety Engineering of Semi-Autonomous Cars	Paper#81: 10.2.2 / A Concept for a Digital Thread based on the Connection of System	, ,	Presentation#9: 10.4.2 / Delighting your client as a Systems Engineering consultant	(Arizona State University); Michael Boardman (Ministry of Defence); Avigdor Zonnenshain (TECHNION); Ido Lev-Ran (RAFAEL); Mica R. Endsley (SA
06:15	06:55	09:15	9:55 14:	15 14:	55 15	:15 1	5:55 1	8:45 19:25	21:15	21:55	22:15 22	:55 23	3:15 23:5	5	Riya Shah, Amrendra Kumar (Mahindra Electric Mobility Limited (Mahindra and Mahindra group))	Models and Specific Models Matthias Bajzek, Clemens Faustmann, Daniel Krems, Philipp Kranabitl, Hannes Hick (Graz University of Technology)	Deployment Kent Welter (NuScale Power, LLC)	Duncan Kemp (Ministry of Defence); Meaghan Oneil (Cambridge Consultants)	Technologies);
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	West	US Eas	l l	UK		Europe	e e	India	1	nina gkong	Korea an Japan	d	Australia Sydney		President Invited Content	Aerospace, Needs and Requirements definition	Biomed/Healthcare/Social Services	Entreprise SE	Modeling/Simulation/Analysis, Human System Integration
															Invited Content#Inv#4: 11.1 / The next Systems Challenge: Developing resilient, effective, inclusive, sustainable societal systems of systems	Presentation#12: 11.2.1 / Towards an Integrated Approach of Systems Behavior Modeling and Specification.	Paper#51: 11.3.1 / Developing a Model Based Systems Engineering Architecture for Defense Wearable Technology	Paper#38: 11.4.1 / Product portfolio mapping used to structure a mature sub-system with large variation - A case study	Paper#29: 11.5.1 / Analyzing Standard Operating Procedures Using Model-based System Engineering Diagrams
7:30	8:10	10:30 1	1:10 15:	30 16:	10 16	:30 1	7:10 2	0:00 20:40	22:30	23:10	23:30 0:	10 0	:30 1:10		Moderator:Anne O'Neil (Anne O'Neil Consultants); Panelists: Brian Collins; Duncan Kemp; Jim Bentley (New South	Jean Duprez (Airbus Operations SAS); Raphael Faudou (Samares Engineering)	Tara Sarathi, Jillian Cyr, Richard DeLaura, James Balcius, Paula Collins, Michael Shatz (MIT Lincoln Laboratory)	Arne Odin Sundet, Satyanaranyana Kokkula, Gerrit Muller, Elisabet Syverud (University of South-Eastern Norway)	Jomana Bashatah, Lance Sherry (George Mason University); Steve Dam, Lauren Flenniken, Patrick Hartmann, Tom Harold (SPEC Innovations)
														Session 11	Wales (NSW) Water Sector, NSW Department of Planning, Industry and Environment); Dr. Kirsten MacAskill (University of Cambridge); Dr. Catherine	Presentation#24: 11.2.2 / Designing Systems by Drawing Pictures and Telling Stories	Presentation#1: 11.3.2 / Using Heuristics to Refine the System Physical Architecture Jose L. Fernandez (Independent Consultant);	Presentation#26: 11.4.2 / Practical demonstration of a highly functional system-centric digital thread	Paper#101: 11.5.2 / Ontology-Based search engine for simulation models from their related system function
8:10	8:55	11:10 1	1:55 16:	10 16:	55 17	:10 1	7:55 2	0:40 21:25	23:10	23:55	0:10 0:	55 1	:10 1:55		Tilley (King's College London);	Barclay Brown (Raytheon Technologies)	Juan Antonio Martinez, Efren Diez (Universidad de Alcala)	Tim Keer, Pawel Chadzynski (Aras Corp.)	Sara Mejdal (Quartz Supméca/INSA Centre Val de Loire); Olivia Penas (Quartz Supméca); Romain Barbedienne (IRT SystemX); Régis Plateaux (Quartz Supméca); Mathieu Bisquay, Jean-Patrick Brunet (IRT SystemX)
9:00	0:40	12-00 1	2.40 17.0	00 17.	40 40	.00 1	10:40	1:30 22:10	0.00	0.40	1:00 1:	40 0	:00 2:40			Presentation#21: 11.2.3 / Integrating MBSE and Product Lifecycle Management Kevin Sweeney (PTC Software)	Paper#103: 11.3.3 / The Benefits of Enhanced Contact Tracing and Quarantine to Resume and Maintain College-Campus Operations: An Agent-Based Probabilistic Simulation Analysis	engineering skills in complex multidisciplinary	Presentation#2: 11.5.3 / Utilizing a Human Readiness Level (HRL) Scale to Promote Effective System Integration
9.00	9:40	12:00	2:40 17.0	00 17.	40 16	.00 1	8.40 2	11.30 22.10	0.00	0.40	1.00	40 2	.00 2.40			reviii Sweeney (FFO Goriware)	Jomana Bashatah, Lance Sherry, Amira Roess (George Mason University)	Ida Kristin Trogstad, Satya Kokkula (University of South-Eastern Norway); Joris Van Den Aker (ESI (TNO))	Benjamin Schwartz (Engineering For Humans)
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															Paper#119: 12.1.1 / Technical Leadership of Virtual and Remotely Distributed Teams	Paper#74: 12.2.1 / Enhancing Enterprise Architecture with Resilience Perspective	Paper#34: 12.3.1 / Challenges in Detecting Emergent Behavior in System Testing	Presentation#8: 12.4.1 / How to get the most out of your Systems Engineering consultants	
10:30	11:10	13:30 1	4:10 18:	30 19:	10 19	:30 2	20:10 2	3:00 23:40	1:30	2:10	2:30 3:	10 3	:30 4:10	Session 12	Francesco Dazzi (Cherenkov Telescope Array Observatory gGmbH); Mark McKelvin (The Aerospace Corporation); Elena Gallego Palacios (Thales Nederland); Sean McCoy (Trame Technologies); Patrick Keen (Lockheed Martin Space); Allison Weigel	Elizabeth Chang (UNSW@ADFA)	Kent Aleksander Kjeldaas, Rune Andre Haugen, Elisabet Syverud (University of South-Eastern Norway)	Duncan Kemp (Ministry of Defence); Meaghan Oneil (Cambridge Consultants)	
															(Toray Composite Materials America, Inc.); Lisa Ziliox (BAE Systems)	Paper#80: 12.2.2 / A Metrics Framework to	Presentation#31: 12.3.2 / From Systems to	Presentation#18: 12.4.2 / Am i doing the right	
																Facilitate Integration of Disaggregated Software Development	Silicon: MBSE-Enabled Digital Electronics Verification	job and am i doing the job right? Jawahar Bhalla (JB Engineering Systems)	
11:15	11:55	14:15 1	4:55 19:	15 19:	55 20	:15 2	20:55 2	3:45 0:25	2:15	2:55	3:15 3:	55 4	:15 4:55			Stephen Cook (Shoal Group Pty Ltd and The University of Adelaide); Ashok Samalam (Shoal Group Pty Ltd); Mark Unewisse (Defence Science and Technology Group)	Lisa Murphy (Siemens Digital Industries Software); Mark Malinoski (Siemens EDA); Shashank Alai (Siemens Digital Industries Software, Inc.); Ahmed Hamza (Siemens EDA)	(3.12.1.1.13 2)	
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13:30	14:00	16:30 1	7:00 21:	30 22:	00 22	:30 23	23:00 2	2:00 2:30	4:30	5:00	5:30 6:	00 6	:30 7:00	Plenary		Кеу	(2020-2021); note - Plenary#: K4.2 / Closing <i>A</i>	Address	