

IS2021 Schedule

| Saturday at IS 2021 | | | | | | | | | | | | | | | | | | | | | |
|---------------------|----------|---------------|----------|------------|----------|------------|----------|------------|----------|----------------|----------|-----------------|----------|------------------|----------|-----------|--|--|--|---|--|
| 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 |
| 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#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 | Session C | Tutorial#15: C.1 / Systems Security Engineering: A Loss-Driven Focus Mark Winstead (MITRE); Michael McEvilley (The MITRE Corporation); Daryl Hild (MITRE) | Tutorial#24: C.2 / Modeling and Analysis of Standard Operating Procedures Jomana Bashata, Lance Sherry (Center for Air Transportation Systems Research at George Mason University); Steven Dam (SPEC Innovations) | 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 | | | | | | |
| 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 | | 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 (DrRichardHodge.com); 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 | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------|---------------|----------|------------|----------|------------|----------|------------|----------|----------------|----------|-----------------|----------|------------------|----------|-----------|--|--|--|---|--|
| 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 |
| 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#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) | Tutorial#20: E.4 / Handling Organizational Complexity 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 | Session G | Tutorial#15: G.1 / Systems Security Engineering: A Loss-Driven Focus Mark Winstead (MITRE); Michael McEvilley (The MITRE Corporation); Daryl Hild (MITRE) | | 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 | | | | | | |
| 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 | | | | | 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 (DrRichardHodge.com); 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 | | | | | | |

IS2021 Schedule

| Monday at IS 2021 | | | | | | | | | | | | | | | | | | Track 1 | | Track 2 | | Track 3 | | Track 4 | | Track 5 | |
|-------------------|----------|---------------|----------|------------|----------|------------|----------|------------|----------|----------------|----------|-----------------|----------|------------------|----------|------------|---|--|---|--|--|---------|--|---------|--|---------|--|
| 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 | | | | | | | | | | | | | |
| 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 | 23:30 | Keynote | Keynote - Plenary#K1: K1 / Countering Digital Authoritarianism Victoria Coleman (USAF Chief Scientist - Senior Advisor to the Director at CITRIS & the Banatao Institute, University of California Former Director of DARPA) | | | | | | | | | | |
| 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 | | Session 1 | | MBSE, System Architecture/Design Definition | Energy (renewable, nuclear, etc.) | System Security, Defense, System Architecture/ Design Definition | TechOps 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 Bedir Tekinerdogan (Wageningen University); Murat Kaan Özcan, Iskender Yakin, Sevil Yagiz (Aselsan) | Paper#40: 1.3.1 / Conceptual modeling of energy storage systems Therese Vrenne, Elisabet Syverud, Gerrit Muller (University of South-Eastern Norway) | Paper#112: 1.4.1 / Integrated Security Views in UAF Matthew Hause (Systems Solutions Inc (SSI)); Lars-Olof Kihlström (Syntell AB) | Invited Content#TechOps#1: 1.5 / Panel: To Vee or not to Vee Jon Wade | | | | | | |
| 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 | | | Paper#52: 1.2.2 / Applying Systems Engineering framework for architecting a Smart Parking System within a Smart City Nikhil Joshi (HCL Technologies); Mudit Mittal (BlueKei Solutions Pvt. Ltd.); Yatin Jayawant (John Deere India Pvt Ltd.); Pradip Salunkhe, Meena Hattarge (Eaton) | Paper#58: 1.3.2 / Conceptual Modelling of Seasonal Energy Storage Technologies for Residential Heating in a Dutch town Best Erik Drien, Elisabet Syverud (University of South-Eastern Norway) | Paper#18: 1.4.2 / Experience in Designing for Cyber Resiliency in Embedded DoD Systems Jennifer Barzeele (Raytheon Intelligence and 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 Aviation) | | | | | | | |
| 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 | | | | | | | | | | | | |
| 12:10 | 12:30 | 11:30 | 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 | | | | | | | | | | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | Session 2 | President Invited Content | MBSE, Processes | FuSE | Aerpace, Defense, System Architecture/ Modeling | TechOps Invited Content | | | | | | |
| | | | | | | | | | | | | | | | | | Invited Content#Inv#1: 2.1 / Viewing Grand Challenges as a System Moderator:Tom McDermott ; Panelists: Shriya Das ; Al George (Cornell); Bob Kenley (Purdue); Julian Johnson (Holistem); Cecilia Haskins (NTNU); | Paper#54: 2.2.1 / A value-driven, integrated approach to Model-Based Product Line Engineering 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) | Paper#43: 2.3.1 / Agility in the Future of Systems Engineering (FuSE) - A Roadmap of Foundational Concepts 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) | Paper#7: 2.4.1 / Aspect-Oriented Architecting Using Architecture Frameworks James Martin (The Aerospace Corporation) | Invited Content#4: 2.5.1 / Spectacular Views of the City Jon Mooney (ACOUSTICS BY JW MOONEY LLC) | | | | | | |
| 9:30 | 10:10 | 12:30 | 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 | | | Paper#20: 2.2.2 / Formulas and Guidelines for Deriving Functional System Requirements from a Systems Engineering Model John Shelton, Victoria Heisler, Kristina Sebacher (Johns Hopkins University, Applied Physics Lab) | Paper#49: 2.3.2 / Security in the Future of Systems Engineering (FuSE), a Roadmap of Foundation Concepts 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 (Raytheon Technologies) | Paper#137: 2.4.2 / UAF (Unified Architecture Framework) Based MBSE (UBM) Method to build a System of Systems Model Lalitha Abhaya (Airbus Defence and Space) | 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. Gina Guillaume-Joseph, Bradford Leigh | | | | | | |
| 11:00 | 11:40 | 14:00 | 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? Kaitlin Henderson, Alejandro Salado (Virginia Tech) | Paper#45: 2.3.3 / Security as a Functional Requirement in the Future of Systems Engineering Keith Willett (U.S. Department of Defense) | Paper#6: 2.4.3 / Enterprise Architecture Process Guide for the Unified Architecture Framework (UAF) James Martin (The Aerospace Corporation); David O'Neil (SAIC) | Invited Content#TechOps#4: 2.5.3 / Leading the Way to Diversity, Equity, and Inclusion in Systems Engineering Alan Harding, Alice Squires | | | | | | |
| 14:40 | 15:00 | 14:40 | 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 | | | | | | | | | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | Session 3 | Systems Competency/ Teaching/Training | MBSE | | System Security, Defense | TechOps Invited Content | | | | | | |
| | | | | | | | | | | | | | | | | | Paper#76: 3.1.1 / Developing a Topic Network of Published Systems Engineering Research Rudolph Oosthuizen (CSIR) | Presentation#3: 3.2.1 / How do we know that we know? - A Model-Based-Knowledge-Management Concept supporting digital effectiveness Robert Nilsson (Volvo Cars Corporation) | Panel#8: 3.3 / Heuristics for Systems Engineering: Useful or Dangerous? Outdated or Enduring? Moderator:Dorothy McKinney (Advanced Systems Thinking, Inc.); Panelists: Gan Wang (BAE Systems); Robert Halligan (PPI); Peter Brook (Dashwood Systems Engineering); Sarah Sheard (Carnegie Mellon University (retired)); Chandru Mirchandani (Leidos); Scott Jackson (Burnham Systems Research); | Paper#47: 3.4.1 / Insights for Systems Security Engineering from Multilayer Network Models Adam Williams, Gabriel Birch, Susan Caskey, Elizabeth Fleming, Thushara Gunda, Thomas Adams, Jamie Wingo (Sandia National Laboratories) | Invited Content#TechOps#5: 3.5 / Panel: SysML 1.7 to 2.0 Daniel Siegl | | | | | | |
| 12:10 | 12:50 | 15:10 | 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 | | | Presentation#7: 3.1.2 / Systems Engineering Professional Certification Standard Ray Hentzschel (Systems Engineering Society of Australia) | Presentation#16: 3.2.2 / Providing truth, trust and traceability to MBSE Adriana D'Souza (Airbus); Larry Gurule (CMPIC / I-Infusion / SAE SMC/G33); David Hetherington (Systems Strategy, inc); Aleksander Przybylo (Boeing) | | Paper#98: 3.4.2 / STPA-Sec Analysis for the DevSecOps Reference Design Ryyan Reule, Brynn Feighery (U.S. Air Force Academy); Mark Winstead, Daryl Hild, Will Barnum (MITRE); Martin Span (U.S. Air Force Academy) | | | | | | |
| 12:55 | 13:35 | 15:55 | 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 | | | | | | | | | | | | |
| 14:40 | 15:00 | 16:35 | 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 | | | | | | | | | | | |
| 13:45 | 14:30 | 16:45 | 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 | | | | | | | | | | |

IS2021 Schedule

| Tuesday at IS 2021 | | | | | | | | | | | | | | | | Track 1 | | Track 2 | | Track 3 | | Track 4 | | Track 5 | |
|--------------------|----------|---------------|----------|------------|----------|------------|----------|------------|----------|----------------|----------|-----------------|----------|------------------|----------|----------------|--|--|--|--|--|--|--|---------|--|
| 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 | | | | | | | | | | | |
| 04:00 | 04:45 | 07:00 | 07:45 | 12:00 | 12:45 | 13:00 | 13:45 | 16:30 | 17:15 | 19:00 | 19:45 | 20:00 | 20:45 | 21:00 | 21:45 | Sponsors Track | | | | | | | | | |
| 05:45 | 06:00 | 08:45 | 09:00 | 13:45 | 14:00 | 14:45 | 15:00 | 18:15 | 18:30 | 20:45 | 21:00 | 21:45 | 22:00 | 22:45 | 23:00 | Break | | | | | | | | | |
| 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 | 23:30 | Keynote | | Keynote - Plenary#K2: K2 / The role of architecture in achieving Society 5.0 Masayoshi Arai (Director-General, Commerce and Information Policy Bureau Ministry of Economy, Trade and Industry (METI), Government of Japan) | | | | | | | |
| 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 | | | | Autonomous Systems, Artificial Intelligence/ Machine Learning | | Industry 4.0 & Society 5.0, Social/ Sociotechnical and Economic Systems | | Oil & Gas | | | |
| | | | | | | | | | | | | | | | | | | 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 AI-based tools to boost cross-enterprise knowledge reuse and improve quality | | | |
| 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 | | | Ramakrishnan Raman, Nikhil Gupta, Yogananda Jeppu (Honeywell Technology Solutions Lab) | | Zane Scott (Vitech) | | Sajjad Sarwar (MHWirth); Cecilia Haskins (NTNU / USN) | | | |
| | | | | | | | | | | | | | | | | | | Paper#132: 4.1.2 / A Systems Engineering Approach to the Design and Education of a Robotic Baby | | Presentation#15: 4.2.2 / Making Your Case- Negotiation and persuasion for the systems engineer | | Paper#64: 4.3.2 / How can simplified requirements affect project efficiency – A case study in oil and gas | | | |
| 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 | | | 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) | | | |
| 8:30 | 9:30 | 11:30 | 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 | | | | | | | | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | | | President Invited Content | | Industry 4.0 & Society 5.0, Social/ Sociotechnical and Economic Systems, Information Management | | Oil & Gas, Maritime | | | |
| | | | | | | | | | | | | | | | | | | Invited Content#Inv#2: 5.1 / DE meets SE: Building a Joint Culture | | Presentation#20: 5.2.1 / System Hierarchy Structures for Sustainable Development Goals | | Paper#2: 5.3.1 / Assessing a supplier to the offshore oil and gas industry following a worldwide pandemic | | | |
| 9:30 | 10:10 | 12:30 | 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:Troy Peterson ; Panelists: Philomena Zimmerman ; | | Maya Narayan, Anshul Agrawal (Holon Perspectives) | | Mo Mansouri, Kristian Frederik Wedel Jarlsberg (University of South-Eastern Norway) | | | |
| | | | | | | | | | | | | | | | | | | Paper#37: 5.2.2 / Unlocking the power of big data within the early design phase of the new product development process. | | Paper#109: 5.3.2 / Implementation of tailored requirements engineering and management 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 | | | |
| 10:15 | 10:55 | 13:15 | 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 | | | 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) | | | |
| | | | | | | | | | | | | | | | | | | 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 | | | |
| 11:00 | 11:40 | 14:00 | 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 | | | 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) | | Charles Keating (Old Dominion University); Polinpapilinho Katina (University of South Carolina Upstate); Raed Jaradat (Mississippi State University); Richard Hodge (DrRichardHodge.com) | | | |
| 11:40 | 12:10 | 14:40 | 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 | | | | | | | | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | | | MBSE | | | | Risk and Opportunity Management | | | |
| | | | | | | | | | | | | | | | | | | 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 | | | |
| 12:10 | 12:50 | 15:10 | 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 | | | Aurelijus Morkevicius, Aiste Aleksandraviciene, Gintare Krisciuniene | | Moderator:Terri Chan (Boeing Commercial Airplanes); Panelists: Philomena Zimmerman (US DoD); Celia Tseng (Raytheon); Sean McGervey (John Hopkins University Applied Physics Laboratory); Myron Hecht, Jaron Chen (The Aerospace Corporation) | | Bredre Aas-Haug (Norwegian DoD); Cecilia Haskins (NTNU / USN) | | | |
| | | | | | | | | | | | | | | | | | | Paper#99: 6.1.2 / Verification and Validation of SysML Models | | Paper#41: 6.3.2 / Predicting failure events from crowd-derived inputs: schedule slips and missed requirements | | Paper#9: 6.4.2 / Why Systems Engineers May Have an Edge When It Comes to Personal Resilience | | | |
| 12:55 | 13:35 | 15:55 | 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 | | | | | Georgios Georgalis, Karen Marais (Purdue University) | | Heidi Hahn (New Mexico Tech) | | | |
| 14:40 | 15:00 | 16:35 | 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 | | | | | | | | | |
| 13:45 | 14:30 | 16:45 | 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 | | | Time with the President | | | | | | | |

IS2021 Schedule

| Wednesday at IS 2021 | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|----------|---------------|----------|------------|----------|------------|----------|------------|----------|----------------|----------|-----------------|----------|------------------|----------|-----------|--|---|---|---|--|--|--|
| 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 | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | | | | | | | | |
| 04:00 | 04:45 | 07:00 | 07:45 | 12:00 | 12:45 | 13:00 | 13:45 | 16:30 | 17:15 | 19:00 | 19:45 | 20:00 | 20:45 | 21:00 | 21:45 | | Sponsors Track | | | | | | |
| 05:45 | 06:00 | 08:45 | 09:00 | 13:45 | 14:00 | 14:45 | 15:00 | 18:15 | 18:30 | 20:45 | 21:00 | 21:45 | 22:00 | 22:45 | 23:00 | Break | | | | | | | |
| 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 | 23:30 | Keynote | Keynote - Plenary#K3: K3 / How systems engineering made solar cars a reality Lex Hoefsloot (Co Founder of Lightyear) | | | | | | |
| 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 | | Session 7 | Social/Sociotechnical and Economic Systems | System Architecture/Design Definition, Syetem Requirements | Measurement and Metrics | System Requirements/ Product Line Engineering | | | |
| | | | | | | | | | | | | | | | | | Paper#27: 7.1.1 / Putting the Social in Systems Engineering: An Overview and Conceptual Development | Paper#62: 7.2.1 / A Framework for Identifying and Managing New Operational Requirements during Naval Vessel Batch-Building Programs | Presentation#30: 7.3.1 / Defining a Measurement Framework for Digital Engineering | Paper#11: 7.4.1 / Innovative Approaches to Superset Asset Templates using Feature-Based Product Line Engineering | Panel#1: 7.5 / The MBSE Futurist's Dilemma: Diffusing systems engineering practices in an AI dominated era | | |
| 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 | | 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 Research in Space) | Brett Morris (Naval Group) | Joseph Bradley (Main Sail, LLC) | June Kobayashi, Steve Way, Jonathan Krauss (Northrop Grumman Space Systems); Paul Clements (BigLever Software, Inc.) | Moderator:Ramakrishnan Raman (Honeywell); Panelists: Stephen Piggott (Canadian Space Agency); Vincent Arnould (Hensoldt); Juan Navas (Thales Group); Hany Fawzy (Canadian Space Agency); | | |
| 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 | | 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 | | | |
| 8:30 | 9:30 | 11:30 | 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 | | | | | | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | Session 8 | 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 Uncertain Times | 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 Can We Learn? | | |
| 9:30 | 10:10 | 12:30 | 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:Charlotte Dunford ; Panelists: Gary Smith (ISSS / Airbus); Jawahar Bhalla ; Patrick Godfrey ; Suja Joseph-Malherbe ; | Derek Price (Network Rail) | James Duffy, Jingyao Feng, Robert Combs, James Richardson (George Mason University) | Eric van Velzen, Alison Olechowski (University of Toronto) | Chanel Beebe, C. Robert Kenley (Purdue University) | | |
| 10:15 | 10:55 | 13:15 | 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 | | | 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 | | |
| | | | | | | | | | | | | | | | | | 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 Gorbacheva (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) | Håkon Kindem (Orbit NTNU); Cecilia Haskins (NTNU) | | | |
| 11:00 | 11:40 | 14:00 | 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#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 | | | |
| | | | | | | | | | | | | | | | | | 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) | | | |
| 11:40 | 12:10 | 14:40 | 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 | | | | | | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | Session 9 | Systems Engineering Lifecycle | Systems/ Software Architecture | Product Line Engineering | System Safety, Aerospace | | | |
| | | | | | | | | | | | | | | | | | Presentation#13: 9.1.1 / 6 Vs and 3 Ts of Systems Engineering | Paper#13: 9.2.1 / A Guide for Systems Engineers to Finding Your Role in 21st-Century Software-Dominant Organizations | Paper#31: 9.3.1 / Feature-based Product Line Engineering: An Essential Ingredient in Agile Acquisition | Paper#53: 9.4.1 / Integrating Safety Analysis into Model-Based Systems Engineering for Aircraft Systems: A Literature Review and Methodology Proposal | Panel#9: 9.5 / Investigating transdisciplinary systems approaches for health care access | | |
| 12:10 | 12:50 | 15:10 | 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 | | David Long (Vitech) | Sarah Sheard (Carnegie Mellon University (Retired)); Mickael Bouyaud (World Line); Macaulay Osaisai (L3Harris Technologies); Jeannine Sivi (SDLC Partners); Kenneth Nidiffer (George Mason University) | Rowland Darbin (General Dynamics Mission Systems); Randy Pitz (The Boeing Company); Matthew Taylor, James Teaff (Raytheon Technologies Intelligence and Space); Bobbi Young (Raytheon Technologies); Beth Wilson (INCOSE Security Systems Engineering Working Group); David Hartley (General Dynamics Mission Systems); Paul Clements (BigLever Software, Inc.) | Kimberly Lai (University of Toronto); Thomas Robert, David Shindman (Safran Landing Systems); Alison Olechowski (University of Toronto) | Moderator:Shamsnaz Bhada (Worcester Polytechnic Institute); Panelists: Leonard Bruce ; Alex Agloro (Arizona State University); | | |
| 12:55 | 13:35 | 15:55 | 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 | | 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 | Paper#21: 9.3.2 / How Missile Engineering is Taking 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! | | | |
| | | | | | | | | | | | | | | | | | Abdul Rahman El Fouly (The Boeing) | 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) | | | | |
| 14:40 | 15:00 | 16:35 | 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 | | | | | | | |
| 13:45 | 14:30 | 16:45 | 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 | | | | | | |

IS2021 Schedule

| Thursday at IS 2021 | | | | | | | | | | | | | | | | Track 1 | | Track 2 | | Track 3 | | Track 4 | | Track 5 | | |
|---------------------|----------|---------------|----------|------------|----------|------------|----------|------------|----------|----------------|----------|-----------------|----------|------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| 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 | | | | | | | | | | | | |
| 04:30 | 05:15 | 07:30 | 08:15 | 12:30 | 13:15 | 13:30 | 14:15 | 17:00 | 17:45 | 19:30 | 20:15 | 20:30 | 21:15 | 21:30 | 22:15 | Sponsors Track | | | | | | | | | | |
| 05:15 | 05:30 | 08:15 | 08:30 | 13:15 | 13:30 | 14:15 | 14:30 | 17:45 | 18:00 | 20:15 | 20:30 | 21:15 | 21:30 | 22:15 | 22:30 | Break | | | | | | | | | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | Session 10 | Autonomous Systems | | Automotive | | Needs and Requirements definition, Risk and Opportunity Management | | Enterprise SE | | | |
| | | | | | | | | | | | | | | | Presentation#22: 10.1.1 / System of Systems Modeling to empower decision makers in drone based services - an application in Agriculture | | 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-AI Teaming: A Human Systems Integration Perspective | | | |
| 05:30 | 06:10 | 08:30 | 09:10 | 13:30 | 14:10 | 14:30 | 15:10 | 18:00 | 18:40 | 20:30 | 21:10 | 21:30 | 22:10 | 22:30 | 23:10 | | Mudit Mittal (BlueKei Solution Pvt. Ltd.); Stueti Gupta (BlueKei Solutions 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 (Arizona State University); Michael Boardman (Ministry of Defence); Avigdor Zonnenshain (TECHNION); Ido Lev-Ran (RAFAEL); Mica R. Endsley (SA Technologies); | | |
| 06:15 | 06:55 | 09:15 | 09:55 | 14:15 | 14:55 | 15:15 | 15:55 | 18:45 | 19:25 | 21:15 | 21:55 | 22:15 | 22:55 | 23:15 | 23:55 | 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 Models and Specific Models | | Presentation#5: 10.3.2 / The Necessity of Systems Engineering for Nuclear Power Plant Deployment | | Presentation#9: 10.4.2 / Delighting your client as a Systems Engineering consultant | | | | | |
| | | | | | | | | | | | | | | | | Riya Shah, Amrendra Kumar (Mahindra Electric Mobility Limited (Mahindra and Mahindra group)) | Matthias Bajzek, Clemens Faustmann, Daniel Krems, Philipp Kranabittl, Hannes Hick (Graz University of Technology) | | Kent Welter (NuScale Power, LLC) | | Duncan Kemp (Ministry of Defence); Meaghan Oneil (Cambridge Consultants) | | | | | |
| 7:00 | 7:30 | 10:00 | 10:30 | 15:00 | 15:30 | 16:00 | 16:30 | 19:30 | 20:00 | 22:00 | 22:30 | 23:00 | 23:30 | 0:00 | 0:30 | Break | | | | | | | | | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | Session 11 | 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 | 11:10 | 15:30 | 16:10 | 16:30 | 17:10 | 20:00 | 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 Wales (NSW) Water Sector, NSW Department of Planning, Industry and Environment); Dr. Kirsten MacAskill (University of Cambridge); Dr. Catherine Tilley (King's College London); | 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) | | |
| 8:10 | 8:55 | 11:10 | 11:55 | 16:10 | 16:55 | 17:10 | 17:55 | 20:40 | 21:25 | 23:10 | 23:55 | 0:10 | 0:55 | 1:10 | 1:55 | | 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 | | 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 | | | |
| | | | | | | | | | | | | | | | | | Barclay Brown (Raytheon Technologies) | | Jose L. Fernandez (Independent Consultant); Juan Antonio Martinez, Eflen Diez (Universidad de Alcala) | | Tim Keer, Pawel Chadzynski (Aras Corp.) | | Sara Mejdal (Quartz Suprméca/INSA Centre Val de Loire); Olivia Penas (Quartz Suprméca); Romain Barbedienne (IRT SystemX); Régis Plateaux (Quartz Suprméca); Mathieu Bisquay, Jean-Patrick Brunet (IRT SystemX) | | | |
| 9:00 | 9:40 | 12:00 | 12:40 | 17:00 | 17:40 | 18:00 | 18:40 | 21:30 | 22:10 | 0:00 | 0:40 | 1:00 | 1:40 | 2:00 | 2:40 | | Presentation#21: 11.2.3 / Integrating MBSE and Product Lifecycle Management | | 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 | | Paper#65: 11.4.3 / Application of T-shaped engineering skills in complex multidisciplinary projects | | Presentation#2: 11.5.3 / Utilizing a Human Readiness Level (HRL) Scale to Promote Effective System Integration | | | |
| | | | | | | | | | | | | | | | | | Kevin Sweeney (PTC Software) | | 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) | | | |
| 9:40 | 10:30 | 12:40 | 13:30 | 17:40 | 18:30 | 18:40 | 19:30 | 22:10 | 23:00 | 0:40 | 1:30 | 1:40 | 2:30 | 2:40 | 3:30 | Break | | | | | | | | | | |
| US West Coast | | US East Coast | | UK | | Europe | | India | | China Hongkong | | Korea and Japan | | Australia Sydney | | Session 12 | Technical Leadership | | System Integration, Measurement and Metrics, Agile Systems Engineering | | System Verification/ Testing | | Enterprise SE | | | |
| | | | | | | | | | | | | | | | 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 | 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 | | 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 (Toray Composite Materials America, Inc.); Lisa Ziliox (BAE Systems) | Victoria Jnitova (UNSW@ADFA); Mahmoud Efatmaneshnik (UNISA); Keith Joiner, 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) | | | | |
| 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#80: 12.2.2 / A Metrics Framework to Facilitate Integration of Disaggregated Software Development | | Presentation#31: 12.3.2 / From Systems to Silicon: MBSE-Enabled Digital Electronics Verification | | Presentation#18: 12.4.2 / Am i doing the right job and am i doing the job right? | | Jawahar Bhalla (JB Engineering Systems) | | | |
| | | | | | | | | | | | | | | | | | 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) | | | | | | | |
| 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 | | Plenary | | | | | | | | | | |
| 12:30 | 13:30 | 15:30 | 16:30 | 20:30 | 21:30 | 21:30 | 22:30 | 1:00 | 2:00 | 3:30 | 4:30 | 4:30 | 5:30 | 5:30 | 6:30 | | Keynote - Plenary#PresidentPanel: K4.1 / Presidents' Panel: Accelerating through Adversity – Back to the Future! Moderator:Marilee Wheaton (INCOSE President Elect); Panelists: Donna Rhodes (2000); David Long (2014-2015); Alan Harding (2016-2017); Kerry Lunney (2020-2021); | | | | | | | | | |
| 13:30 | 14:00 | 16:30 | 17:00 | 21:30 | 22:00 | 22:30 | 23:00 | 2:00 | 2:30 | 4:30 | 5:00 | 5:30 | 6:00 | 6:30 | 7:00 | | Keynote - Plenary#: K4.2 / Closing Address | | | | | | | | | |