Day 1 - Tuesday 9th February 2027: scsc.uk/sss

	Track A: Using AI [Sansovino] Chairs: TBC, TBC		Track B: Cyber / Complexity [The Vaults] Chairs: TBC, TBC		Track C: Tutorials [Blue Room] Chairs: Karin Rudolph, TBC		
09:00 – 10:00	**Coffee and light breakfast**						**09:00 – 10:00**
10:00 – 10:30	**Keynote:** Richard Hawkins, University of York	**The BIG Argument for AI Safety Cases**	-		-		**10:00 – 10:30**
10:35 – 11:00	Ben Fulford and Daniel Boardman, BMT	**Grounding AI-Assisted HAZOP in a System Model**	Nikita Johnson Needle, Rolls-Royce SMR	**The SafSec System Property: Understanding and Assuring Emergent Safety-Security Behaviour in Safety-Critical Systems**	Simon Whiteley, Whiteley Safety	**[Tutorial] STAMP Tutorial (TBC)**	**10:35 – 11:00**
11:05 – 11:30	**Invited Speaker:** Mark Sujan, University of York	**LLMs in Safety Management**	Divya Atkins, Martin Atkins, MCA	**Cyber-security for Networks (TBC)**		**STAMP Tutorial…ctd**	**11:05 – 11:30**
11:30 – 12:00	**Coffee**						**11:30 – 12:00**
12:00 – 12:25	John Jorgensen, Blue Origin	**Navigating a Global Safety Crisis: The Gen AI Tidal Wave**	Dan Locke, Coracademy Ltd	**Forcing the Issue: How Cyber Security Risk Assessment Became Part of Military Airworthiness**	Beatriz Couthino, Cranfield University	**[Workshop] Safety Futures Initiative and SCSC Mentoring Scheme**	**12:00 – 12:25**
12:30 – 12:50	Chris Hobbs talking to Dave Banham	**20 Quick Questions**	-		-		**12:30 – 12:50**
12:50-13:50	**Lunch**						**12:50-13:50**
13:50 – 14:15	Oscar Slotosch, Validas	**Safety of AI Models and AI Compilers: A VASE-Based Qualification Approach**	**Invited Speakers:** Kevin King, Pearl Noble-Mallock, BAE Systems	**Building Trusted Products: A Conversation on Safety and Security [Tutorial]**	Taylor Thoman, C. Michael Holloway, NASA	**[Tutorial] Extending the Overarching Properties with Ethical Principles**	**13:50 – 14:15**
14:20 – 14:45	Matt Osborne, Cade McCall and Aaron Laycock, University of York	**The Puddle Problem: Risk Estimation and Risk Tolerance in Autonomous System Decision-Making**	Chris Hobbs, Consultant	**[Tutorial] Applying the SCSC Engineered Complex Systems Guidance**		**Extending the Overarching Properties … ctd**	**14:20 – 14:45**
14:50 – 15:15	Jeff Joyce, Critical Systems Labs	**AI-enabled Scenario-driven Evaluation of Safety Case Arguments**		**Applying the SCSC Engineered … ctd**	Marcel Beemster, Sjoerd van der Zwaan, Solid Sands	**From 'Qualify Once' to Continuous Assurance - Compiler and Library Qualification for Safety-Critical Systems**	**14:50 – 15:15**
15:15 – 15:45	**Tea**						**15:15 – 15:45**
15:45 – 16:10	Pavlo Barkhayev, Mikhail Tchernikov, Capgemini Engineering Deutschland	**Development of compliant AI-incorporating tools**	Mohammed Tloul, Laure Buysse, Dries Vanoost, Davy Pissoort, KU Leuven and Flanders Make@KU Leuven	**You Find What You Look For: How Analysis Purpose and Perspective Shape STPA Results**	Nick Tudor, D-RisQ	**[Tutorial] Requirements**	**15:45 – 16:10**
16:15 – 16:40	Alan Simpson, Ebeni	**Beyond the Hype: LLMs in Safety-Critical Engineering**	Sven Fuelster, Deep Safety	**From Confidence Scores to Failure Rates: Constructing – and Bounding – a Quantitative Safety Claim for ML-Based Perception**		**Requirements … ctd**	**16:15 – 16:40**
16:45 – 17:15	**Keynote:** Catherine Menon, University of Hertfordshire	**What we talk about when we talk about AI**	-		-		**16:45 – 17:15**
17:15 – 17:25	**Short Break**						**17:15 – 17:25**
17:25 – 18:15	**Technical Entertainment "Can You Outsmart AI?" and "AI Can Make You a Star" with Paul Hampton and Karin Rudolph**						**17:25 – 18:15**
18:15 – 19:45	**Exhibition with free drinks and buffet meal**						**18:15 – 19:45**

Day 2 - Wednesday 10th February 2027: scsc.uk/sss

	Track A: Safety Engineering [Sansovino] Chairs: Mark Nicholson, TBC		Track B: Software [The Vaults] Chairs: James Inge, Dave Banham		Track C: Workshops [Blue Room] Chairs: Simon Whiteley, TBC		Stream D: Social	
08:00 – 08:30	**Coffee and light breakfast**							**08:00 – 08:30**
08:30 – 09:00	**Keynote:** Mario Trapp, Fraunhofer IKS	**Triadic Intelligence: A Path to Safe AI Architectures**	-		-		-	**08:30 – 09:00**
09:05 – 09:30	Anne Seldon, Soteira Consulting	**Preserving Engineering Judgement in AI-Assisted Safety Engineering**	Daniel Kaestner, AbsInt	**Qualifying the Formally Verified Compiler CompCert for Safety-Critical Avionics Software**	Benjamin Carvell, Richard Cannon, George De Ath, Richard Everson, Edward Henderson, Hodgkin, Frankie Hui,	**Project Bluebird: Digital Twins and Agents for Air Traffic Control**	-	**09:05 – 09:30**
09:35 – 10:00	Rhiannon Chilton, Mike Standish, and Brian Stevens, Defence Science and Technology Laboratory	**Software Development Principles for Trustworthy Software**	Bernhard Kaiser, Ansys, part of Synopsys	**[Workshop] A SysML v2-Based Library Stack for Integrated System Development and Dependability Analysis**	John Korna, Elhassan Mohammed, Nick Pepper, Rob Procter, Alvaro Sierra, Billal Sattar, Marc Thomas		-	**09:35 – 10:00**
10:00 – 10:30	**Coffee**							**10:00 – 10:30**
10:30 – 10:55	Carmen Noll (Carlan)	**SCaaS: A Practical Framework for Independent Assessment of Automated Driving Systems**	Bernhard Kaiser, Ansys, part of Synopsys	**A SysML v2-Based Library … ctd**	Young and Early-career speakers	**5 minute 'pitch' talks with £100 Amazon voucher prize**	-	**10:30 – 10:55**
11:00 – 11:25	Rhodri Andrew, AtkinsRéalis	**Safety at Machine Speed: Engineering Transparent Autonomy for High Tempo Operations**	Daniel Kaestner, AbsInt	**Efficient Abstract Interpretation-based Static Analysis of Recursive Programs**		**5 minute 'pitch' talks … ctd**	-	**11:00 – 11:25**
11:30 – 11:50	Mario Trapp talking to Carmen Noll (Carlan)	**20 Quick Questions**	-		-		-	**11:30 – 11:50**
11:55 – 12:25	**Keynote:** David Slater, Cardiff University and Consultant	**Functional Systems Modelling: From Component Knowledge to System Understanding**	-		-		-	**11:55 – 12:25**
12:25 – 13:25	**Lunch**							**12:25 – 13:25**
13:25 – 13:50	Chris Hobbs, Consultant	**Addressing Safety Standard Development**	Paul Hampton, Consultant	**[Tutorial] AI Coding**	Divya Atkins, Martin Atkins, MCA	**[Workshop] How to be Data-Safe throughout the lifecycle**	-	**13:25 – 13:50**
13:55 – 14:20	Bren Hall, Ardent Innovation Labs	**CASSANDRA: Continually Assessed System Software and Network Dynamically Reasoned Assurance**		**AI Coding … ctd**		**How to be … ctd**	**Blackbeard to Banksy Walking Tour**	**13;55 – 14:20**
14:25 – 14:50	Simon Diemert, Laure Millet, Torin Viger, Sara Magdalinski, Annie Chung, Jeffrey Joyce, Critical Systems Labs Inc.	**Product Line Assurance Cases with Variability Points**	Jonathan Pallant, Ferrous Systems	**[Tutorial] Building safety-critical systems in Rust (TBC)**	Alex Barker, Consultant	**[Workshop] Aligned to What? A Safety-Critical Systems Perspective on AI Alignment**	**Blackbeard to Banksy Walking Tour … ctd**	**14:25 – 14:50**
14:55 – 15:20	Stephen Bull, Ebeni	**How can we manage (railway) hazards better?**		**Building safety-critical systems … ctd**		**Aligned to what … ctd**	**Blackbeard to Banksy Walking Tour … ctd**	**14:55 – 15:30**
15:20 – 15:50	**Tea**							
15:55 – 16:20	Marc Zeller, Nishanth Laxman and Ioannis Sorokos, Siemens Mobility and Fraunhofer IESE	**Towards Cross-Domain Safety Argumentation under Uncertainty**	Gabriel Pedroza, Guilherme Goretkin, Matthieu Paquet, David Neckels, Vincent Ducros, Bernard Dion, Synopsys	**[Workshop] A Digital-MBSE & Simulation-based Framework for Design and Validation of Safety- and Mission-critical AI/ML Systems**	Stephen Bull, Ebeni	**[Workshop] Managing hazards efficiently**	**MShed visit (TBC)**	**15:40 – 16:20**
16:25 – 16:50	Dieter Fasol MBDA Deutschland	**(Model based) modular safety case in the upcoming NGVA (NATO Generic Vehicle Architecture) Safety Volume**		**Autonomy Solution … ctd**	Jesper Brännström, Consultant	**AI-Assisted Safety Case Review Using SCCG and Assurance Forge**	**MShed visit … ctd**	**16:25 – 16:50**
17:00 – 18:30	**Poster session with £100 Amazon voucher prize. Posters judged by Bill Blackburn, Anne Seldon and TBA**							**17:00 – 18:30**
19:00 – 23:00	**Pre-dinner drinks followed by Banquet. After-dinner speaker Harold Thimbleby introduced by TBA. Post-banquet activity: TBA**							**19:00 – 23:00**

Day 3 - Thursday 11th February 2027: scsc.uk/sss

	Track A: Agents / Uncrewed Systems / SMS / Environment [Sansovino] Chairs: TBC, TBC		Track B: Evolving Good Practice [The Vaults] Chairs: Davy Pissoort, TBC		Track C: Accidents & Assurance [Blue Room] Chairs: TBC, TBC		
08:00 – 08:30	**Coffee and light breakfast**						**08:00 – 08:30**
08:30 – 09:00	**Keynote:** Christopher Burr, Turing Institute	**What Counts as Evidence? Dynamic Assurance for Agentic Digital Twins**	-		-		**08:30 – 09:00**
09:05 – 09:30	**Invited Speaker:** John McDermid, University of York	**Assurance of Agentic AI**	Callum Gathercole, BusbySim	**Shift-Left Safety: Keeping Safety in Step with Design Using SysML v2**	Nick Tudor, DRisQ	**Update on PLatForM**	**09:05 – 09:30**
09:35 – 10:00	Alex Barker, Consultant	**Understanding the Totality of Risk in Uncrewed Systems: A Risk Aggregation Approach**	Vikas Ghatge, KU Leuven	**Ensuring Safety and Effectiveness of Medical Devices in the Presence of Electromagnetic Disturbances through Unified EMC Assurance: A Resilience Pattern**	Graham Sutherland, Canetia Analytics, Inc.	**AI-Enabled Digital Twin Monitoring for Transit Structures: Continuous Insight for Reliability and System Performance**	**09:35 – 10:00**
10:00 – 10:30	**Coffee**						**10:00 – 10:30**
10:30 – 10:55	**Invited Speaker:** Jimmy Lirvat, GTWings	**A Safety Assurance Framework for Autonomous Wind-Assisted Ship Propulsion (TBC)**	Michael O'Connor, Consultant	**[Tutorial] An Open, Machine-Checked Assurance Case for a Safety-Critical Dose-Titration Advisor: Integrating Technical and Ethical Principles via IEC 63187**	Peter Ladkin, Causalis, Abigail Post, Consultant	**[Tutorial] Resilience and Its Varied Meanings in System Engineering**	**10:30 – 10:55**
11:00 – 11:25	Jessica Morris, Stewart Field, Safeguard Engineering	**Risk Beyond the Hull: Understanding System Boundaries and Assurance for MASS**		**An Open, Machine-Checked… ctd**		**Resilience … ctd**	**11:00 – 11:25**
11:30 – 11:50	Clare Crowley talking to Mark Sujan	**20 Quick Questions**	-		-		**11:30 – 11:50**
11:55 – 12:25	**Keynote:** John Holmes, NATS	**Challenges of Safely Integrating Advanced Air Mobility Operations into UK Aviation Ecosystem**	-		-		**11:55 – 12:25**
12:25 – 13:25	**Lunch**						**12:25 – 13:25**
13:25 – 13:50	**Invited Speakers:** Clare Crowley[1], Simon Whiteley[2], Denham Phipps[1], Keely Galloway[1], Deinniol Owens[1] 1 HSSIB 2 Whiteley Aerospace	**Applying STAMP in healthcare: lessons from a national investigation**	Colin O'Halloran, DRisQ	**[Workshop] Safeguarding software generated by AI**	Kholoud Hatem, SAFEROBO LLC	**[Tutorial] A Hybrid Approach for Safety Case Development Using Vertical Claim Decomposition and Horizontal Relationship Analysis**	**13:25 – 13:50**
13:55 – 14:20	Si Hays, SCSC	**Our Products Are Safe. So Why Do We Need an SMS?**		**Safeguarding software … ctd**	John Jorgensen, Blue Origin	**ASTM F47.01 WK76298: Yet Another "Motherhood" Standard, or a Commercial Space "First Principles" Revolution?**	**13:55 – 14:20**
14:25 – 14:50	Abigail Post, Martijn IJtsma OSU	**Envisioning Safety Management System Evolution for Artificial Intelligence in Safety-Critical Domains**	Jon West, Consultant	**Developing corporate-level safety cases: from aviation to ports (TBC)**	Lavinia Burski, Yuhui.Lin, AtkinsRealis	**Static Analysis for Autonomous Systems: Assuring Safety through AI–Non-AI Architectural Separation (TBC)**	**14:25 – 14:50**
14:50 – 15:20	**Tea**						**14:50 – 15:20**
15:20 – 15:45	Thayyab Hussain, Paul Hogan, Safeguard Engineering	**Uncrewed Maritime Autonomy and Lithium-Ion Batteries: Closing the Safety and Environmental Assurance Gap**	Ben Fulford, BMT	**[Workshop] Rest Assured: A serious game for teaching the fundamentals of AI assurance**	Wolfgang Freese, Modelwise GmbH	**[Tutorial] From Assertion to Evidence: Automated FMEDA, Automated FTA, and Their Combination**	**15:20 – 15:45**
15:50 – 16:15	James Inge, Sarah Whittaker, National Armaments – Materiel	**Safe systems, sustainable outcomes: applying an environmental lens to critical systems**		**Rest Assured … ctd**		**From Assertion to Evidence…ctd**	**15:50 – 16:15**
16:20 – 16:50	**Keynote:** Phil Koopman, CMU	**Edge Cases and Physical AI Safety: Remote Assistance to the Rescue**					**16:20 – 16:50**
16:50 – 17:00	**Close**						**16:50 – 17:00**

5 Minute ‘Pitch’ Talks Details
Wednesday 10th February

Beatriz Couthino, Cranfield University	**TBA**

Poster Session Details
Wednesday 10th February & Thursday 11th February

Oscar Slotosch, Validas	**CONTROL (TBC)**
Lavinia Burski, Yuhui.Lin, AtkinsRealis	**Static Analysis for Autonomous Systems: Assuring Safety through Probabilistic–Deterministic Architectural Separation**
Clare Crowley, HSSIB, Simon Whiteley, Whiteley Aerospace	**TBA**
Liv Clark, Fortescue Zero and Oxford Brookes University	**Evolving Safety Cases and ALARP Decision Making in Rapid Safety-Critical Prototyping**
Danial Safaei, University of Warwick	**Can simulated images be trusted as safety evidence for AI perception?**
Stefano Costa, Bluewind	**Bluewind methodology for efficiency in Failure Modes, Effects and Diagnostic Analysis**
David Outram, National Armaments Group	**Air Defence Safety Management**