SCSC
For Everyone Working in System Safety

SSS'26 Programme

34th Safety-Critical Systems Symposium

10 - 12 February 2026
The Milner York, UK

www.scsc.uk/sss

The Safety-Critical Systems Club
invites all delegates to its 34th Annual Symposium

The SCSC has supported the system safety community since 1991

This year's symposium has five main themes of AI and Autonomy, Addressing Complexity, Unmanned Aerial Vehicles and Systems (UAV/UAS) and New Approaches

System safety must evolve to make best use of AI, both in development of systems and assurance of them. Ways to analyse AI and autonomous systems for safety aspects need to be established

Systems are getting ever more complex, inter-connected and inter-dependent. New guidance, tools and techniques are needed to manage and assure such systems

The new SCSC **Safety Management and Safety Management Systems Working Group (SMSWG)** aims to develop a 'Handbook for Safety Managers'

Other SCSC WGs have been active, including the **Safer Complex Systems Working Group (SCSWG)** and the **Safe System Architecting Working Group**

The Safety-Critical Systems Club
About the Symposium

This is the programme for the 34th Safety Critical Systems Symposium (SSS'26) held in February 2026 at The Milner York hotel, York, UK

The Symposium is for all safety practitioners: both early career and experienced delegates are welcome

Six keynote talks from recognised experts

Three parallel streams on the Wednesday

Poster sessions

Double ticket for early-career delegates

A great opportunity to learn and develop new connections and build networks

Full workshop and tutorial programme

Working Group meet-ups

SSS'26 extends across 3 days, with presentations grouped into key themes

Symposium Banquet

Armchair chats with experts in the world of system safety

Working group updates provided by posters

Tools, Services and Recruitment Exhibition

Mix with experts and learn new ideas that can help with career progression

Technical entertainment

Full proceedings volume

Distinguished after-dinner speaker

Interactive sessions

Day 0 - Monday 9th February 2026: scsc.uk/sss

Session: Rehearsal		
20:00 - 21:30	Rehearsals and soundcheck for presenters	**Optional. In main hall - for those who have not presented to a large audience before**
20:30 – 22:00	TBA	**Gin Tasting Experience (TBC)**

Day 1 - Tuesday 10th February 2026: scsc.uk/sss

Time	Speaker	Title
08:30 – 10:20	**Registration with coffee and light breakfast**	
10:20 – 10:30	Mike Parsons, SCSC	**Welcome and Introduction**

Session: UAV and UAS
Chair: Mikela Chatzimichailidou

Time	Speaker	Title
10:30 – 11:05	**Keynote:** Steve Wright, Wright Airborne	**Staying safe from flying killer robots**
11:05 – 11:35	Bernhard Kaiser, Rüdiger Diefenbach, Matthieu Paquet, Petr Fomin, Guilherme Goretkin, John Vergere, Tom Neely and John Macauley, Ansys	**Agile Model-Based Development and Safety Assessment for Light UAVs**
11:35 – 12:05	**Coffee**	

Session: Addressing Complexity
Chair: Davy Pissoort

Time	Speaker	Title
12:05 – 12:35	Chris Hobbs, Farmhall; Mike Parsons, SCSC	**Complex Systems Guidance: Learning from Surprises**
12:35 – 13:35	**Lunch with Talk @ 13:05:** Simon Whiteley, Whiteley Aerospace	**Addressing Complexity using STAMP Control Structure Models and STPA Hazard Analysis**
13:35 – 14:05	Jonas Wolf, Hartmut Hörner, Vector Informatik GmbH	**Introducing a new complexity metric on software unit level**
14:05 – 14:35	James Inge, DE&S, Katia Potiron KNDS, Joseph Machrouh, Thales	**Putting importance into context: moving from the abstract to the concrete with IEC 63187**
14:35 – 14:55	Mikela Chatzimichailidou talking to Karin Rudolph	**Armchair chat**
14:55 – 15:25	**Tea**	
15:25 – 15:55	James Inge DE&S; Katia Potiron KNDS; Mark Carter, BAE Systems; Ian Hartwell RISIKO	**Integration of Human Factors into Complex System Safety**
15:55 – 16:30	**Keynote**: Odd Ivar Haugen, DNV	**Complexity and Assurance**

Extras

Time	Speaker	Title
16:30 – 17:30	Paul Hampton and Karin Rudolph	Technical entertainment with audience participation, '**AI Don't Believe It!**'
17:45 – 20:30	**Exhibition with drinks and evening buffet meal (free for all delegates) Drinks provided by:**	

Day 2 - Wednesday 11th February 2026: scsc.uk/sss

Time	Stream A: New Approaches [Events Centre] Chairs: Stephen Bull / Karin Rudolph		Stream B: Workshops [Jorvik Room] Chairs: Mark Nicholson / TBC		Stream C: Tutorials & YEC [Minister Room] Chairs: Dave Banham / Mark Sujan		Stream D: Social		Time
08:05 – 08:35	Coffee and light breakfast								08:05 – 08:35
08:35 – 09:05	**Keynote:** Mikela Chatzimichailidou, University College London	**Balancing Act: Navigating the Tensions Between Safety, Innovation, and Sustainability**	As Stream A		As Stream A		-		08:35 – 09:05
09:10 – 09:35	Darendra Appanah, James Cruise, Walden Killick, Bob Oates, Cambridge Consultants	**Quantifying the quantised – the interface of quantum technology and safety**	Keith Armstrong and Davy Pissoort, KU Leuven	**Why EMC testing is not enough, and what to do about it**	James Inge, DES, Katia Potiron, KNDS et al.	**Developing IEC 63187**	-		09:10 – 09:35
09:40 – 10:10	**Keynote:** Harold Thimbleby, Swansea University	**A framework to update the Common Law presumption that computer evidence is reliable**	As Stream A		As Stream A		-		09:40 – 10:10
10:10 – 10:40	Coffee								10:10 – 10:40
10:40 – 11:00	Phil Koopman talking to Roger Rivett	**Armchair chat**	As Stream A		As Stream A		-		10:40 – 11:00
11:05 – 11:30	Helen Monkhouse, Michael Orgill, HORIBA MIRA	**Automated Driving (AD) Residual Risk**	Vikas Ghatge[1,2], Dries Vanoost[1,2], Rob Kleihorst[3], Davy Pissoort[1,2], 1 KU Leuven, 2 Flanders Make, 3 Philips Medical	**Ensuring Safety and Effectiveness of Medical Devices in the Presence of Electromagnetic Disturbances through a Unified EMC Assurance Case: A Risk Pattern**	Peter Ladkin, Causalis	**Possibility Analysis**	-	National Rail Museum Trip 1	11:05 – 11:30
11:35 – 12:00	Olivier Rousse, EDF Nuclear Services	**COTS computer-based devices: Qualification or safety justification needs in the nuclear industry**	Divya & Martin Atkins, MCA, Tim Rowe, consultant	**How to be Data-Safe**		**Possibility Analysis - continued**	-	NRM Trip 1 - continued	11:35 – 12:00
12:05 – 12:30	Laure Buysse, Mohammed Tloul, Dries Vanoost, Davy Pissoort, KU Leuven and Flanders Make	**Towards Dynamic Safety Cases for Cobots: Leveraging Standards, Indicators, and Digital Twins**		**How to be Data-Safe - continued**	Chris Hobbs, Farmhall	**Sensitivity Analysis in a Safety Case**	-	NRM Trip 1 - continued	12:05 – 12:30
12:30 – 13:30	Lunch							NRM Trip 1 - continued	12:30 – 13:30
13:30 – 13:55	Sam Moody, EDF	**Practical experience with the use of static techniques in the substantiation of safety related systems**	Jeff Joyce, Adam Casey, Simon Diemert, and Laure Millet, CS Labs	**Configurable Assurance Cases**	Young and Early-career speakers	**5 minute 'pitch' talks with £100 Amazon voucher prize**	Social Event 1: York Walking Tour	National Rail Museum Trip 2	13:30 – 13:55
14:00 – 14:25	Carmen Carlan, TÜV SÜD Rail GmbH	**Towards Implementing Safety Factories to Enable Agile and Continuous Delivery of Safety-critical Systems**		**Configurable Assurance Cases - continued**		**5 minute 'pitch' talks … continued**	York Walking Tour - continued	NRM Trip 2 - continued	14:00 – 14:25
14:30 – 14:55	Leo Frietas, UNEW; Colin O'Halloran and Nick Tudor, D-RisQ	**Platform: An UK/GE collaboration on formal methods and testing**	Robert Stroud, Adelard (part of NCC Group), Sam Moody, EDF Nuclear Services	**Experience using static analysis tools to build confidence in safety-critical software for industrial control systems**	Jonathan Pallant, Ferrous Systems	**Building safety-critical systems in Rust**	York Walking Tour - continued	NRM Trip 2 - continued	14:30 – 14:55
15:00 – 15:25	Gavin McCall, and Joe Melling, Codethink	**The Eclipse Trustable Software Framework**		**Experience using static analysis tools … continued**		**Building safety-critical systems … continued**	York Walking Tour - continued	NRM Trip 2 - continued	15:00 – 15:25
15:25 – 15:55	Tea						Social Event 2: York Ghost Tour	National Rail Museum Trip 3	15:25 – 15:55
16:00 – 16:30	Jeff Joyce, Adam Casey, Simon Diemert, Laure Millet, Critical Systems Labs	**Operationalizing Metamorphic Testing for Validation of Complex Safety-critical Functions**	Joe Hare, Leo Freitas, Ken Pierce, Patrick Degenaar Newcastle University; Callum Robinson, D-RisQ	**Modelling the Requirements of a Medical Device in Kapture and Simulink**	Mark Sujan, University of York	**Large Language Models in Safety-Critical Domains: Qualification, Assurance and Practical Limits**	York Ghost Tour - continued	NRM Trip 3 - continued	16:00 – 16:30
16:30 – 17:00		**Operationalizing Metamorphic Testing … continued**		**Modelling the Requirements … continued**		**Large Language Models … continued**	York Ghost Tour - continued	NRM Trip 3 - continued	16:30 – 17:00
17:00 – 18:00	**Poster session with £100 Amazon voucher prize**								17:00 – 18:00
19:00 – 23:00	**Pre-dinner drinks followed by Banquet. After-dinner speaker Graham Braithwaite introduced by Tom Anderson. Post-banquet activity: Quiz**								19:00 – 21:30

Day 3 - Thursday 12th February 2026: scsc.uk/sss

08:00 – 08:30	**Coffee and light breakfast**	

Session: AI & Autonomy 1
Chair: Karin Rudolph

08:30 – 09:05	**Keynote:** Simon Burton, Jie Zou, Sepeedeh Shahbeigi Roudposhti, University of York	**Effective and reflective assurance for AI-based autonomy**
09:05 – 09:35	Abigail M. Post, David D. Woods, Martijn IJtsma, The Ohio State University	**An Updatable Process to Assess Human Interaction with Artificial Intelligence and Advanced Automation Over Time**
09:35 – 09:55	Tim Kelly talking to Tom Anderson	**Armchair chat**
09:55 – 10:25	**Coffee and Posters**	
10:25 – 10:55	Meaghan O'Neil, Russell Lock, Loughborough University; Patrick Baker, UK Ministry of Defence; Tim Watson, Loughborough University & Alan Turing Institute;	**Preliminary Findings of Practitioner's Perspectives on AI Adoption in Engineering Processes: An Exploratory Study in Engineering Practices**
10:55 – 11.25	Oscar Slotosch, Validas AG	**An AI-Based Tool Chain Vision for the Development of Safety Critical and Compliant Systems**
11:25 – 11:55	Ben Fulford, Thomas Wilkinson, Matt Wylie, Luke Hankins, BMT	**AI-assisted HAZOP: Can prompt engineering deliver a credible HAZOP assessment?**
11:55 – 12:55	**Lunch with Talk @ 12:30:** Carmen Carlan TÜV SÜD Rail GmbH	**A Checklist for Choosing an LLM to Support Safety Analyses**

Session: AI & Autonomy 2
Chair: Carmen Carlan

12:55 – 13:25	Anne Seldon, Consultant	**Exploring the Role of Large Language Models in the Development of Safety Concepts**
13:25 – 13:55	Shaun Feakins, Ibrahim Habli and Phillip Morgan, University of York	**What's Your Context? Assuring GPAI in Safety-critical Settings**
13:55 – 14:25	Joshua Riley, Kez Smithson Whitehead and Matt Wylie, BMT	**Towards predictive accident prevention: can retrieval augmented generation powered artificial intelligence inform preventative mitigation?**
14:25 – 14:55	**Tea and Posters**	
14:55 – 15:25	Adam Casey[1], Malav Naik[2], Simon Diemert[1], Nader Abu El Samid[2], Jeffrey Joyce[1], Emmanuel Lesser[2], Paul Grouchy[2], 1: Critical Systems Labs Inc, 2: MDA Space	**AI-Enabled Monitoring of Space Robotics Telemetry**
15:25 – 15:55	Bernard Twomey, Kongsberg Maritime	**Maritime Autonomy – Are we making progress?**
15:55 – 16:30	**Keynote:** Phil Koopman, CMU	**Overview of Embodied AI Safety**

16:30 – 16:35	Mike Parsons, SCSC	**Closing Remarks**
16:35	**Tea and networking**	

5 Minute 'Pitch' Talks Details
Wednesday 11th February, 13:30 – 14:30

1. Beatriz Coutinho, 3SK	**Why is HRA important in SOFIT for off-road vehicles?**
2. Mohammed Cherry, LSE	**Authority, Emotion, and Communication Breakdown: An Analysis of the Air France Flight 447 Accident**
3. Mohammed Tloul, KU Leuven	**Challenges in Applying STPA to a Wheelchair with Head-Foot Steering System**
4. Others TBA	

Poster Session Details
Wednesday 11th February, 17:00 – 18:00

1. Lavinia Burski, AtkinsRéalis	**Transforming Formal Verification: Insights from MALPAS**
2. Paul Hampton, SCSC	**OWG introduction**
3. James Inge, MOD	**IEC 63187 Systems engineering - System safety Complex systems in defence programmes**
4. Jonas Wolf, Vector Informatik	**Goal structuring notation tool (gsn2x)**
5. Mohammed Cherry, LSE	**Authority, Emotion, and Communication Breakdown: An Analysis of the Air France Flight 447 Accident**
6. Mohammed Tloul, KU Leuven	**STPA Analysis for a Wheelchair with a Head-Foot Steering System**
7. Chris Hobbs, Farmhall	**Safer Complex Systems Working Group**
8. Alan Simpson, Ebeni	**Safe AI Working Group**
9. Kevin King, BAE Systems	**Service Assurance Working Group**
10. Simon Whiteley, Whiteley Aerospace	**Addressing Complexity using STAMP Control Structure Models and STPA Hazard Analysis**
11. Davy Pissoort, KU Leuven	**COSAIN: Co-Designing Safety and Control for Autonomous Navigation on Inland Waterways**
12. Davy Pissoort, KU Leuven	**ORCA: Orchestrating Resilient and Compliant Agents**
13. Mike Parsons, SCSC	**Data Safety Initiative (DSIWG) Update**

Cost (see also booking form at scsc.uk/sss)

Residential (includes 3 days in the symposium, all meals and banquet, with 2 nights in the York hotel, all handouts and symposium pack)	£1,295
Residential double ticket, as above but the second delegate **must be under 35 or a full-time student**.	£1,995 (for **two** delegates)
Non-residential in the hotel, includes lunch and refreshments each day and symposium pack. Does not include banquet (see below).	£895
Day attendance for each day includes lunch and refreshments and evening meal on the Tuesday (no accommodation, banquet extra, no pack)	£325
34th symposium pack. Includes: • SCSC freebies: t-shirts etc • SSS'26 Proceedings book • SCSC Newsletters • Working group publications • Exhibitor Information • Symposium bag	£95
Banquet additional ticket	£55
Student / under-26 day rate (limited spaces, no accommodation)	£80 per day
Monday or Thursday night in the hotel	£195 per night
Variations, concessionary rates and extra nights in the hotels can be accommodated, please contact alex.king@scsc.uk	

Non-members are required to pay annual club membership of £149 (this is a special SSS rate, normal rate is £155 from 1st February 2026). Please see scsc.uk/membership.

Contact Alex King (alex.king@scsc.uk) for further details and concessions.

York

Come and meet with your colleagues in person! Enjoy the experience of being in the historic city of York, develop new contacts and network with colleagues. There will be special social events and a fabulous banquet experience.

This is a face-to-face event. Contact the office for non-UK online participation.

Website: **scsc.uk/sss**
Further details will be emailed to registered delegates.

Registration

All enquiries to: Alex King, Tel: **01904 954830**, Email: alex.king@scsc.uk

Code of Conduct

For speakers and delegates at SCSC events please see the code of conduct:

https://scsc.uk/file/site/SCSC_Code_of_Conduct_-_Speakers_and_Delegates.pdf

Cancellation Policy

Registration fees are refundable (less a £50 cancellation fee) if written notice is received by 31st December, 2025. Refunds cannot be made after this date. All refunds will be issued after the symposium.

Refunds cannot be issued due to medical reasons. Delegates are able to replace their attendance with a colleague, but only by notification in advance.

Other problems such as transport strikes or bad weather: we are bound by hotel contractual conditions and are still billed for catering and room charges, etc. Therefore, we regret that we cannot reimburse delegates in the event of these circumstances.

Phone: 01904 954830 Email: alex.king@scsc.uk, mike.parsons@scsc.uk

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The full proceedings of the symposium will be given out as a hardcopy book to all in-person symposium attendees. They will also be available from the SCSC website as a PDF (for club members). Further hardcopies are available from Amazon.

Exhibitors and Sponsors

Generate New Leads

The Symposium offers a chance to connect and develop new business relationships with system safety professionals

Meet Key Decision-Makers

Understand what is driving the safety business and what safety managers needs

Keep Up-to-date

See what's on the horizon.

Stay competitive and on the leading-edge of safety

Display New Products

SSS'26 is a great platform for launching products and services. Showcase your safety products and services to an interested audience

Recruitment

Face-to-face contact with 150 safety practitioners. Discuss opportunities and attract interest.

The tools, vendor and recruitment exhibition will run from Tuesday 10th Feb and Wednesday 11th Feb 2026.

If you would like to exhibit or sponsor SSS'26, or for further details, please contact Alex King, alex.king@scsc.uk