



SafeComp 2026

The 45th International Conference on Computer Safety, Reliability and Security

September 22 – 25, 2026

València, Spain



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PROGRAM AT-A-GLANCE

	Workshop day	Conference days		
Time	22-Sep	23-Sep	24-Sep	25-Sep
08:30–09:00	Registration			
09:00–09:30	WS1	Opening Session	Keynote 2	Keynote 3
09:30–10:00		Keynote 1		
10:00–10:30			Coffee Break	
10:30–11:00	Coffee Break	Coffee Break	Coffee Break	S7: Practice of hazard analysis and risk assessment
11:00–11:30	WS2	S1: Fault tolerance and diagnosis	S4: Safety of AI-Based Systems	
11:30–12:00				S8: Quantitative methods
12:00–12:30				
12:30–13:00	WS3	S2: Safety protection	Position Papers 2	S9: Real-time aspects
13:00–13:30			EWICS Session	
13:30–14:30	Lunch			
14:30–15:00	WS4	S3: Cybersecurity & mixed-criticality in safety-critical systems	Position Papers 3	S10: Testing
15:00–15:30			S5: Industrial Safety Engineering in the AI-Era	
15:30–16:00			Closing Session	
16:00–16:30	Coffee Break	Free	Coffee Break (Posters discussion)	Free
16:30–17:00	WS5			
17:00–17:30			S6: Engineering Safety Systems	
17:30–18:00				
18:00–20:00	Free	Excursion	Free	
20:00–22:00	Welcome reception	Cocktail	Banquet	

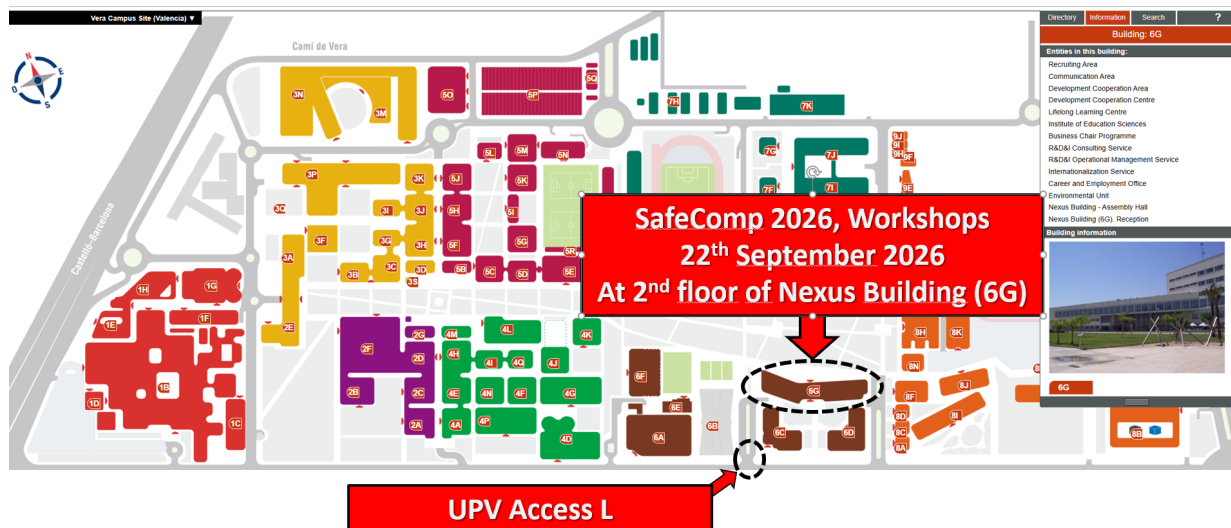
Workshop Day

22 Sept. 2026

Location:

UPV, Building Nexus (6G), 2nd floor

Check at <https://www.upv.es/plano/plano-2d-en>



General Workshop structure:

The sessions of each workshop can be checked in the details of its program (see below).

- | 08:30 – 09:00 | Registration
- | 09:00 – 10:30 | WS1: Morning Session
- | 10:30 – 11:00 | Coffee Break
- | 11:00 – 12:30 | WS2: Late Morning Session
- | 12:30 – 13:30 | WS3: Early Afternoon Session
- | 13:30 – 14:30 | Lunch
- | 14:30 – 16:00 | WS4: Mid Afternoon Session
- | 16:00 – 16:30 | Coffee Break
- | 16:30 – 18:00 | WS5: Late Afternoon Session
- | 18:00 – 20:00 | Free time
- | 20:00 – 22:00 | Welcome reception

Workshop program details:

- CSRIS 2026: 1st Int. Workshop on Cybersecure Supply Chains for Safe and Resilient Industrial Systems – Program available at: <https://tinyurl.com/csrisw2026>
- SASSUR 2026: 13th Int. Workshop on Next Generation of System Assurance Approaches for Critical Systems – Program available at: <https://tinyurl.com/sassurw2026>
- DECSoS 2026: 21st Int. Workshop on Dependable Smart Embedded Cyber-Physical Systems And Systems-of-Systems – Program available at: <https://tinyurl.com/decsosw2026>
- ORCAS 2026: 1st Int. Workshop on OverReliance on Cognitive AI Systems in Safety-Critical Domains – Program available at: <https://tinyurl.com/orcasw2026>
- SafetyNXT 2026: 2nd Int. Workshop on Disruptive Safety Challenges and Paradigms – Program available at: <https://tinyurl.com/safetynxtw2026>
- DAIES 2026: 1st Int. Workshop on Dependable AI in Embedded Systems – Program available at: <https://tinyurl.com/daiesw2026>
- SENSEI 2026: 5th Int. Workshop on SaFEty aNd SEcurity Interactions – Program available at: <https://tinyurl.com/senseiw2026>
- WAISE 2026: 9th Int. Workshop on Artificial Intelligence Safety Engineering – Program available at: <https://tinyurl.com/waisew2026>

Conference Day 1

23 Sept. 2026

Location:

UPV, CPI - Blue Cube (8B), 3rd floor Auditorium

Check at <https://www.upv.es/plano/plano-2d-en>



08:30 – 09:00	Registration
09:00 – 09:30	Opening session
09:30 – 10:30	Keynote 1: Toward Large-Scale Fault-Tolerant Quantum Computers: Security in the Quantum Era <i>Carmen G. Almudéver, Universitat Politècnica de València (Spain)</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	Session 1: Fault tolerance and diagnosis ■ OpenFI4ASIC: An Open-Source Fault Injection Framework for ASIC Designs via FPGA-Based Rapid Prototyping— <i>Jasper Homann, Eike Trumann, Umut Durak and Guillermo Payá-Vayá</i> ■ Two-Layer Adaptive Fault Tolerance Framework for Internet of Medical Things: A Weighted Autoencoder with Reinforcement Learning-Based Threshold Adaptation— <i>Abdelhammid Bouazza, Hichem Debbi and Hicham Lakhlef</i> ■ Diagnosis of Runtime Property Violation— <i>Alberto Sambrotta, Stefano Tonetta, Alessandro Cimatti and Marco Bozzano</i>
12:30 – 13:30	Session 2: Safety protection ■ Defeaters from Accidents and Incident Reports: Discovery, Extraction, Identification— <i>Tihomir Rohlinger, Daniel Ratiu, Carmen Carlan and Stefan Wagner</i> ■ A Safety Cage for Reliable GNSS and AI-based PNT: an Experience Report— <i>Guillermo Gomez, Alberto Griggio, Luca Morelli, Theodore Russell, Stefano Tonetta and Pawel Trybala</i>
13:30 – 14:30	Lunch
14:30 – 16:00	Session 3: Cybersecurity & mixed-criticality in safety-critical systems ■ Identifying Control & Monitoring Data for Forensics of Safety-Critical Attacks on Control Room Operations— <i>Alexios Karagiozidis and Martin Gergeleit</i> ■ Remote Attestation for Secure Industrial Device Onboarding— <i>Volodymyr Trykoz, Björn Leander, Saad Mubeen and Mohammad Ashjaei</i> ■ Mixed-Criticality with Unsafe Operating Systems— <i>Michael Peter, Radu Morus, George Adrian Ciusleanu and Kai Lampka</i>
16:00 – 18:00	Free time
18:00 – 20:00	Guided Excursion
20:00 – 22:00	Cocktail

Conference Day 2

24 Sept. 2026

Location:

UPV, Building Nexus (8B), 3rd floor Auditorium

Check at <https://www.upv.es/plano/plano-2d-en>



08:30 – 09:00 | Registration

09:00 – 10:00 | Keynote 2: Physical AI Safety: A Unified Framework for Safety, Security, and AI Assurance

Gianpiero Negri, Global Head, Robotics Safety Center of Excellence, Amazon Robotics (Italy)

10:00 – 10:30 | Position Papers: Session 1

- Engineering Physical-Security-Aware Dependability: A Cross-Layer Framework for Resili(g)ence— *Alessandra Galassi and Fabio Graziosi*
- Expressing The Risk of Collision between Drones Using SORA Principles— *Sara Rachid and Fateh Kaakai*
- Safety Architecture for EV Thermal Management: A Multi-Sensor and Actuator ISO 26262 Perspective — *Baran Gülkaya, Kadir Capar, Sinan Ozturun and Mert Solmaz*
- From AI Assistance to Safety-Relevant Influence: Life-Cycle-Aware LLM-Supported Engineering— *Robert Maier and Florian Bogenberger*
- Research Agenda for Human-AI Teaming in Safety-Critical Settings— *Tita Alissa Bach and Dag McGeorge*
- Impact and Challenges of the UN Global Technical Regulation on Automated Driving Systems— *Ingo Stierand, Birte Neurohr and Björn Koopmann*
- Architectural Segregation as the Defensible Compliance Path for Physical AI in Medical Mechatronics— *Erik Scherlin and Daniel Watzenig*
- From Complexity to Confidence: Ensuring Reliability of Intelligent Maritime Software Systems— *Shuai Wang, Nikita Karandikar and Knut Erik Knutsen*
- A Hierarchical Framework for Safety in Orchestrated Systems-of-Systems — *Julieth Castellanos, Sasikummar Punnekkat, Gabriele Capannini and Sara Abbaspour*
- The Squeezed Middle: Responding to Engineering Process Changes— *Rob Ashmore and James Sharp*

10:30 – 11:00 | Coffee Break

11:00 – 12:30 | Session 4: Safety of AI-Based Systems

- Formal Target Aware Training of Machine Learning Models— *Nicolas Valot, Louis Fabre, Benjamin Lesage, Ammar Mechouche and Claire Pagetti*
- From High-Dimensional Spaces to Verifiable ODD Coverage for Safety-Critical AI-based Systems— *Thomas Stefani, Johann Maximilian Christensen, Elena Hoemann, Frank Köster and Sven Hallerbach*
- From Concept to Capability: Evaluating 3D Gaussian Splatting for Synthetic Scene Editing in Autonomous Driving— *Ali Nouri, Yifei Zhang, Yifan Zhang, Tayssir Bouraffa, Zhennan Fei, Zijian Han, Hakan Sivencrona and Anders Heyden*

12:30 – 13:00 | Position Papers: Session 2

- Toward Model-Based Compliance: Engineering NIST SP 800-130 Cryptographic Key Management Systems with SysML— *Ebru Akalp Kuzu and Mert Olpak*
- Quantum-Safe Readiness as Assurance Evidence— *Ofir Joseph*
- An Assurance Concept for LLM-based extraction of structured information from Clinical Reports— *Ioannis Sorokos, Thorsten Honroth, Michael Kläs and Theresa Ahrens*
- False Confidence in Residual-Risk Estimates: Why ADS Safety Cases Need Claim-Oriented V&V Credibility Arguments— *Jan Reich and Ioannis Sorokos*
- Certified Translation in TXS Core— *Richard Kreckel and Alexandre Bérard*
- AUTOSAFE 2.0: Improved and Optimized Automation of Fault Tree Analysis— *Kamilla Shagzatova, Aigerim Bakytzhanova, Winfried Friedl, Robert Muirhead and Brad Sams*
- One Model, Two Processes: Unifying Aerospace ARP4754B Development and ARP4761A Safety Assessment in a SysML v2 Source of Truth— *Omar Hafez, Brad Sams and Robert Muirhead*
- Runtime Trustworthiness Under Uncertainty: A Fuzzy Cause Tree and Subjective Logic Framework for Autonomous Systems — *Thejus Pathmakumar, Robert Puto, Benjamin Herd and Mario Trapp*
- Treating Dynamic Risk and Complexity in IEC 613187— *James Inge, Katia Potiron, Joseph Machrouh and Odd Ivar Haugen*
- How Can Neuroscience Enhance System Safety?— *Quentin Montardy, Katia Potiron and James Inge*

13:00 – 13:30 | EWICS Session

13:30 – 14:30 | Lunch

14:30 – 15:00 | Position Papers: Session 3

- A Position on Security Assurance for Compute-in-the-network Cyber-Physical Systems — *Saad Mubeen, Mohammad Ashjaei, Per Strandberg and Björn Leander*
- Quantitative Confidence Assessment: An essential ingredient for dynamic assurance— *Simon Diemert and Jens Weber*
- Closing the Loop Between Safety and Autonomy— *Laure Buyse, Dries Vanoost, Davy Pissort, Floia Sofia Acerbo, Jan Sweers and Wilm Decré*
- Mutually Beneficial Safety and Security Analyses— *Lindsay White, Richard Paige and Alan Wassing*
- Runtime Assurance Framework for V2X: Misbehavior Detection as SOTIF Runtime Monitoring— *Ashok Krishna*
- The Knowledge Representation Gap in Assurance— *Mauricio Castillo-Effen*
- Operational Safety and Cybersecurity Assurance of AI-Based Perception in Highly Automated Driving— *Milin Patel and Rolf Jung*
- Practical Challenges in Uncertainty Quantification for General-Purpose AI in Generative Tasks— *Michael Klaes, Rasmus Adler, Thorsten Honroth and Tuhinangshu Gangopadhyay*

14:30 – 15:00 | Position Papers: Session 3 (cont.)

- **SCORE: Toward Certifiable AI on Linux Through Continuous Runtime Monitoring**— *Iker Galardi, Markel Galaraga, Unai Garciarena, Iñaki Garitano, Charles-Alexis Lefebvre, Javier Navaridas, Jose A. Pascual, Urko Zurutuza and Fernando Lahoz*
- **Operationalizing ODDs for Runtime Assurance of Safety-Critical AI Systems**— *Stefan Brunner, Monika Reif and Stefan Leue*

15:00 – 16:00 | Session 5: Industrial Safety Engineering in the AI-Era

- **Adoption of Safety Standards in the Japanese Automotive Industry: A Consortium Survey**— *Yutaka Matsuno, Shinobu Ochiai and Fumiaki Kono*
- **SmartStandards: Efficient extraction and operationalization of requirements from industry safety standards using Generative AI**— *Daniel Hillen, Marc Lorenz, Pascal Gerber and Jan Reich*

16:00 – 17:00 | Coffee Break (Posters for Position Papers: Discuss with authors)

17:00 – 18:00 | Session 6: Engineering Safety Systems

- **Chaining Unsafe Control Actions in STPA**— *Nicholas Petrunti, Spencer Deevy, Vera Pantelic, Mark Lawford, Richard Paige and Alan Wassynng*
- **SubSeaCure: Grid-Based Risk Mapping of Europe's Subsea Data Cable Network**— *Jonas Franken, Martin Hagemeyer, Timon Dörrnfeld, Julian Löffler, Paula Meissner and Christian Reuter*

18:00 – 20:00 | Free time

20:00 – 22:00 | Conference Banquet

Conference Day 3

25 Sept. 2026

Location:

UPV, Building Nexus (8B), 3rd floor Auditorium

Check at <https://www.upv.es/plano/plano-2d-en>



08:30 – 09:00	Registration
09:00 – 10:00	Keynote 3: Combining High Performance Hardware and Software with High Software Assurance: Is it Possible? <i>Leonidas Kosmidis, Barcelona Supercomputing Center (Spain)</i>
10:00 – 10:30	Coffee Break
10:30 – 11:30	Session 7: Practice of hazard analysis and risk assessment ■ Five Measures to Counter Obscure Hazardous Failure Conditions in Foundation Model Systems— <i>Florian Geissler, Josef Jiru, Johanna Schmidhuber, Poulami Sinhamahapatra, Florian Butsch and Reinhard Stolle</i> ■ Practical Challenges in AI Risk Classification and Assessment: Insights from an AI Sandbox Pilot— <i>Danilo Brajovic, Benjamin Fresz, Elena Dubovitskaya, Nadine Ferber, Theo Jacobs, Lena Lörcher and Marco F. Huber</i>
11:30 – 12:30	Session 8: Quantitative methods ■ Probabilistic Confidence in Assurance 2.0 Arguments— <i>Robin Bloomfield and John Rushby</i> ■ The Statistical Assessment of Bayes-suboptimal Binary Machine Learning Classifier Risk— <i>Abraham Chan, Ilir Gashi, Sathish Gopalakrishnan, Karthik Pattabiraman and Kizito Salako</i>
12:30 – 13:30	Session 9: Real-time aspects ■ MISRust: Mapping MISRA-C++ Coding Guidelines to the Rust Programming Language— <i>Marius Molz, Niels Schneider, Sven Lechner, Stefan Kowalewski and Alexandru Kampmann</i> ■ On the Timing Determinism of CUDA and Vulkan SC for Safety-Critical AI Workloads on Integrated SoC GPUs— <i>Yousif M. Elsheikh, Adrian Raiser, Fabian Frommherz and Zamira Daw</i>
13:30 – 14:30	Lunch
14:30 – 15:30	Session 10: Testing ■ Uncertainty-Aware Threat-Informed Test Case Prioritization with Human-in-the-Loop— <i>Darshana Abeyrathna Kuruge, Juan Camilo Guevara Gomez, Meine van der Meulen, Per Myrseth and Andreas Høfer</i> ■ ML-Powered Test Case Prioritisation: Leveraging Code Changes for Optimal Testing— <i>Loui Al Sady, Niklas Markert and Reinhard German</i>
15:30 – 16:00	Closing session

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