



ESAW 2026 - DAY 1

Time (CEST)	Conference Centre (first floor)	
08:00 – 09:00	Registration and Morning Coffee	
09:00 – 09:30	Welcome Speech & Logistics & Safety Briefing	
09:30 – 10:15	Keynote: Cybersecurity in Space: A Collective Responsibility	
10:15 – 11:00	Poster Session & Coffee Break	
	25 A Decade of Evolution: DTN Resilience and Direct IP Connectivity in LEO on ESA's OPS-SAT (2015–2024) Aggelis A, Zagkos D, Vangelatos C Hellenic Aerospace Industry	
	13 A Robust Architecture Pattern for Integrating AI Operators in Space Systems Leidig K, Nehlich P University of Stuttgart, Institute of Space Systems	
	19 GX-CC: Multi-Mission Operations at GSOC based on EGS-CC Brügge T, Polzin H, Hagen C, Stangl C GSOC	
	42 Cyclic Intelligent Redundancy System of Multiple Logical Rings (CIRS-MLR): A Distributed Cyclic Architecture for Resilient Mission Ground Segment Operations Fassel P Independent Researcher	
	53 Model-Based Continuity Across Engineering and Operation in Monitoring and Control Systems Zorba O, Pannella A, Trebbin N SSC Space	
	52 Integrating Non-Space Elements into Mission Control Systems Using a Modular Architecture Pannella A, Zorba O, Trebbin N, Brach L SSC Space	
	Conference Centre (first floor)	Press Centre (ground floor)
	Ground Segment Platforms & Modernisation	Data Foundations, Archiving, Synthetic Data & AI Ecosystems
11:00 – 11:20	31 An Evolutionary Platform Architecture for Secure, Automated and Sustainable Ground Segments Ramos G(1), Ribeiro D(1), Pozo V(1), Calvo Chevillat B(1), Rodriguez-de-Andres P(2) (1) GMV, (2) ESA-ESTEC	33 AI READY MULTI MISSION AND MULTI ASSET ARCHIVING (AIMA) Veskos P(1), Petreski H(2), Zimmer T(3) (1) Software Competitiveness International S.A., (2) Software Competitiveness International GmbH, (3) ESA/ESOC
11:25 – 11:45	38 Maturing EGOS-MG into an Operational and Secure Multi-Mission Ground Systems Platform - Alas D, Bhuvanagiri P, Walsh A GMV	8 SYNDAQ – Synthetic Data Generation and Qualification Martinez J(1), Fleith P(1), Rojczyk K(1), Madhogaria S(2), Ehmann F(2), Gobi A(3), Molinari D(3), Toso S(3), Ntagiou E(4), Eggleston J(4) (1) Solenix Engineering GmbH, (2) Telespazio, (3) Fondazione Bruno Kessler (FBK), (4) European Space Operations Centre
11:50 – 12:10	18 Are the Clouds Clearing on the Ground? Redesigning Ground Segments for Secure Constellations Cocci E, Hall S Telespazio Germany GmbH	47 Unsupervised Anomaly Detection Vivero J, Tejedor M GMV
12:15 – 12:35	50 Architecture and Innovations for ESA's Space Weather Payload Data Centre Magyar N Starion Group	Cloud Data Delivery Standards - Beyond SLE Dreihahn H ESA
12:40 – 14:00	Lunch Break	
	Planning, Scheduling & Real-Time Mission Operations	AI for Spacecraft Health Monitoring
14:00 – 14:20	15 Toucans – Reactive ground station scheduling for the next decade and beyond Wiesner S, Fruth T, Wörle M Deutsches Zentrum für Luft- und Raumfahrt (DLR)	9 SMAI - Satellite health Monitoring AI-powered suite Martinez J(1), Policella N(1), Strasburger M(1), Erdogan A(1), Figueiredo M(1), Figueiredo J(1), Rojczyk K(1), Cao H(1), Moro A(2), Helmsauer K(2), Bortolotto M(3), Svaizer P(3), Cristoforetti M(3), Hegwein F(4), Bankanal R(4), Canio G(5), Eggleston J(5), Tran D(5) 1 Solenix Engineering GmbH, 2 DLR - GSOC, 3 Fondazione Bruno Kessler (FBK), 4 Airbus, 5 European Space Operations Centre
14:25 – 14:45	23 PintaOnWeb – enabling versatile solutions for interactive planning and scheduling Wiebigke A, Schöpf A, Wörle M German Space Operations Center (GSOC), Mission Technology Department	20 Upgrading AI services in an operational satellite health monitoring system Del Moro A, Leidreiter D, Quirino Savelli de Menezes P, Helmsauer K, Göttfert T Deutsches Zentrum für Luft- und Raumfahrt, German Space Operations Center (DLR - GSOC)
14:50 – 15:10	28 IDEPlan - an advanced platform to close the end-to-end planning chain Jenkins R, Berry L GMV	36 Embedding Machine-Learned Anomaly Detection into Relevance-Driven Mission Operations Workflows Bellomi D(1), Zuccoli V(1), Magaouda E(1), Guzzo A(1), Cocci E(2), Lora A(2), Bullmann J(2) (1) Intella, (2) Telespazio Germany
15:20 – 15:40	32 Intelligent Ground Operations System Allik M, Lodi S Spaceit	21 Enhancing Spacecraft Health Monitoring through AI Driven Anomaly Detection: Integrating GOSMIC with gifted_GENE Frouvelle N(1), Capitanelli A(2), Cros P(1), Thomas C(1), Caronte F(2), Casciola N(2), Campagna G(2) (1) CS Group, (2) Aiko space
15:40 – 16:10	Coffee Break	
	Human-Centric Operations	AI Assistants, Predictive Ops & Intelligent Engineering
16:10 – 16:30	46 Enhanced Operations with UX/UI Design Vivero J, Segatto M GMV	45 From Search to Sensemaking: A Multi-Agent AI Assistant for Mission Operations at ESOC and GSOC (OCAI-NG) Sondhi A, Weitz B GMV
16:35 – 16:55	30 Instructional Design in the Software Development Lifecycle - Where to start training media production and how? Höhner B Telespazio Germany GmbH	10 Enhancing SDLC Test and Validation Tasks via Artificial Intelligence Salor Moral N(1), V. Ntagiou E(2), Di Luca A(3), Welge T(4), Ernst H(5), Stoitsev T(6) (1) Starion Group, (2) European Space Operations Centre, (3) Fondazione Bruno Kessler, (4) FEV etamax GmbH, (5) Airbus Defence and Space GmbH, (6) SpaceCube GmbH
17:00 – 17:20	17 Orchestrating the Ground Segment: A Reference Architecture for API-Driven Constellation Automation Cocci E, Hall S Telespazio Germany GmbH	34 Pilot Digital Twin Spacecraft: An End-to-End Digital Twin Concept for Space Missions from AIT to Operations Werner B(1), Antonello F(2), Birn R(3), Eisenmann H(3), Gupta A(6), Müller A(5), Otton A(6), Schäfer S(1), Shrestha R(4), Weißenseel S(1), Wenzel K(4) (1) Telespazio Germany GmbH, (2) ESA/ESOC, (3) Airbus Defence and Space GmbH, (4) Fraunhofer IWU, (5) ScopeSET GmbH, (6) Jotne Connect
17:25 – 17:45	12 Extending long-term visual satellite health monitoring beyond telemetry Leidreiter D, Del Moro A, Göttfert T, Lesch T, Noll S German Aerospace Center (DLR), Space Operations and Astronaut Training	
19:00 – 23:00	Aperitif and hosted dinner Das Roeders - Rheinstraße 99, Darmstadt	



ESAW 2026 - DAY 2

Time (CEST)	Conference Centre (first floor)	
08:00 – 09:30	Registration and Morning Coffee	
09:30 – 10:30	Panel: How to meet the challenges of dual use ground segments?	
	Conference Centre (first floor)	Press Centre (ground floor)
10:30 – 11:00	Coffee Break	
	Automation & Orchestration for Constellations	Cybersecurity & ZeroTrust Operations
11:00 – 11:20	16 The Orchestrator: A Unified Architecture for Automation in the Galileo Ground Segment Ott M(1), Genovese D(1), Denis B(2) (1) GMV, (2) ESA	37 A generic zero-trust architecture for ground-segment systems Calado Alas D(2), Demircan K(1), Kuppusamy B(1), Laroque C(1), Marszk D(3), Niezette M(1), Weber A(1) (1) Telespazio Germany GmbH, (2) GMV GmbH, (3) ESA
11:25 – 11:45	35 Lights-Out System for automation of operations & mission planning for a fleet Heinen W Starion Group	40 A DevSecOps guide for your Ground segment Fradique R, Olchawa A, Starcik M, Cirne A, Smith T Visionspace
11:50 – 12:10	29 Astral Dash: A System-of-Systems Approach to Scalable Fleet and Constellation Operations Shafi R(1), Eggleston J(3), Clark C(1), Salor Moral N(2), Paramantham D(1), Beltrami P(2), Pidgeon A(1) (1) Starion Group, (2) Starion Group, (3) ESA	49 Patching vs Passive and active Vulnerability detection for Space Ground Control Segment Vivero J, San Miguel D GMV
12:15 – 12:35	22 Enabling Europe's Autonomy and Resilience Through a Next-Generation Ground Segment for Large-Scale Constellations Frouvelle N, Thomas C, Cros P, Pipo C CS Group	44 Securing the Future Solar System Internet Baumgaertner L ESA
12:40 – 13:50	Lunch Break	
	Simulation & Emulation for Future Missions	EGS-CC/Pulse Adoption & Operationalisation
13:50 – 14:10	51 The next generation of ESA SIMULUS Emulator: a new design to improve performance and usability in operational simulators for future missions. Martinho T(1), Simões T(2), Irvine M(1), Freitag T(1), Ingenito A(1) (1) Telespazio Germany, (2) ESA	11 ExoMars ROCC Modernization Study based on Pulse Adoption Fiorella F(1), Villa A(1), Bussi D(1), Picco C(1), Riorda A(1), Rovera A(1), Kowalczyk A(2) (1) ALTEC S.p.A., (2) European Space Agency
14:15 – 14:35	48 RCCSIM: A Multi-Mission Operational Simulator Framework for the ROSE-L, CIMR and CHIME Copernicus Expansion Missions Kato T, Antúnez A, Whitty J, Jochec J Terma GmbH	14 SOIL: The generic and adaptive mission control systems concept used within the LUNA Analog Facility Hagen C, Arnold S German Aerospace Center
14:40 – 15:00	7 Future of Emulators and Simulation Technologies for Ground Segment Caserman P, Segneri D, Antonello F, Simoes T, Widegard K ESA/ESOC	54 Automated Scenario Validation as a link between requirements engineering and validation activities Walczak D(1), Czaplicka A(1), Livschitz J(2) (1) Bit By Bit Sp.zo.o., (2) ESA/ESAC
15:05 – 15:25	43 ATENA ATOP - procedure validation, debugging and authoring suite for OPS and AIT – a case study for unification of data processes Wawrzyniak M, Szumigalski M, Filipiak T, Springer T ITTI Sp. Z o.o.	27 From Development to Deployment: Realizing Operational Use of the Columbus MCS-R Trebbin N, Hermannsdörfer N, Schröder-Lanz A, Musudi K, Kecaj O SSC Space
15:30 – 16:00	Coffee Break	
	Delay-Tolerant Networking & Advanced Communications	Guided Tours at 16:00 Meeting point next to the building reception desk
16:00 – 16:20	41 Architecting LunaNet-Ready Ground Stations Using Delay and Disruption-Tolerant Networking Montilla A(1), Montilla Ochoa A(1), Hill E(2) (1) Spatiam Spain, (2) Spatiam Corporation	
16:25 – 16:45	26 A Decade of Evolution: DTN Resilience and Direct IP Connectivity in LEO on ESA's OPS-SAT (2015–2024) Aggelis A, Zagkos D, Vangelatos C Hellenic Aerospace Industry	
16:50 – 17:10	5 openvocs Next generation voice communication Töpfer M DLR e.V.	
17:15 – 17:35	39 ESA's new Space Weather Payload Data Centre - Scope and Vision Klug J ESA/ESOC	