

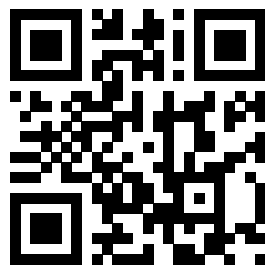
CRITIS

2026

The 21st International Conference on Critical Information Infrastructures Security

28 - 30 September 2026
Larnaca, Cyprus

CONFERENCE PROGRAM



Hosted by



Coordinator



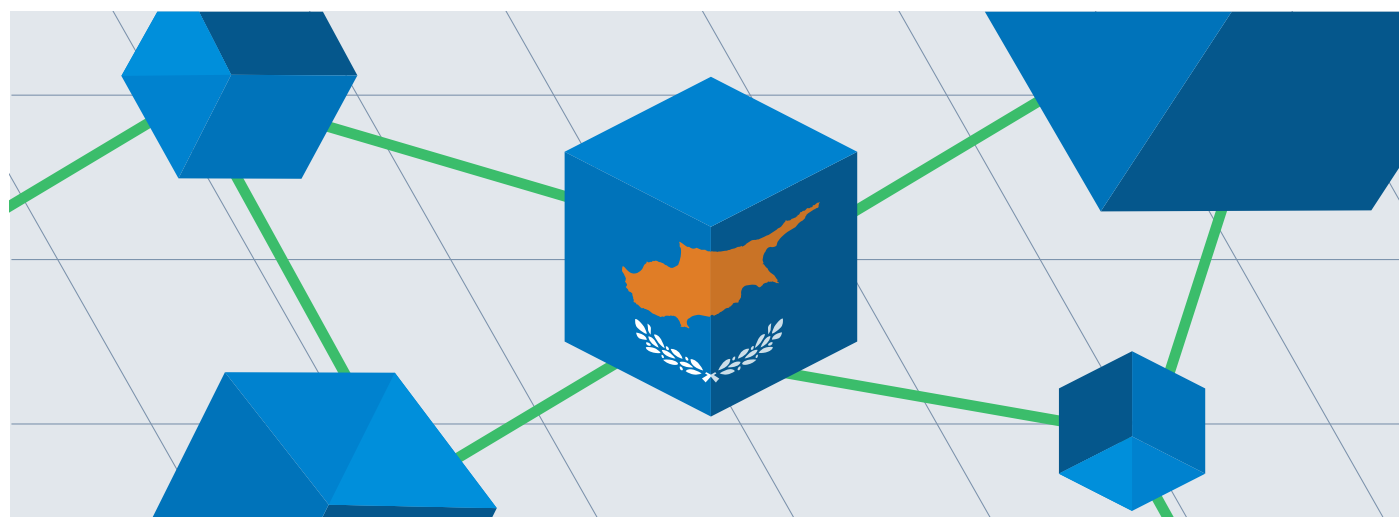
<https://critis2026.com>



08:30–09:00	Registration
09:00–09:10	Opening - Prof. Bernhard Hämmerli , CRITIS Steering Committee Chair
09:10–09:20	Welcome - Prof. Stavros Stavrou , Rector, Open University of Cyprus, CRITIS General Chair
09:20–10:20	Session 1 – Critical Infrastructure Risk & Resilience Session Chair: <i>Bernhard Hämmerli</i> , Lucerne University of Applied Sciences and Arts
09:20–09:40	From National Hazard Scenarios to Board-Level Resilience: A Framework for Critical Infrastructure Operators <i>Peter Burgherr, River Huang, Mirjam Gruber-Durrer, Rolf Scheiber and Marco Gruber</i>
09:40–10:00	Resilience-Aware Criticality Assessment for Critical Information Infrastructures <i>Fatimah Faraji and Haralambos Mouratidis</i>
10:00–10:20	A Gibbs Construction for Directional Cyber Cascades in Critical Infrastructure <i>Eleftherios Eleftheriadis, Maryam Sheikhi Garjan, Hannes Federrath and Ioannis Mavridis</i>
10:20–10:50	Coffee Break
11:00–11:30	Keynote Talk Marios Pieri , Commissioner of Communications, Cyprus
11:30–13:10	Session 2 – Governance, Regulation & Compliance Session Chair: <i>Adamantini Peratikou</i> , Open University of Cyprus
11:30–11:50	The Non-Composability of Resilience Certificates Across Critical Infrastructure Domains <i>Branka Stojanovic</i>
11:50–12:10	Procurement Law vs. Security Reality: The Challenge of Specifying, Verifying, and Enforcing Cybersecurity Requirements in CI Procurement <i>Fabio Friedli and Luana Herzog</i>
12:10–12:30	Threat-Led Penetration Testing after DORA: Comparing TLPT, TIBER-EU, CBEST and iCAST <i>Kevin Illi</i>
12:30–12:50	AuditLens: A Proxy-Reference Benchmark for Cross-Framework Compliance Mapping in EU Audit Preparation <i>Hani Ali Bacha, Simon Rohlmann and Nicolai Kuntze</i>
12:50–13:10	Reporting Authority in EU CRA Article 14 Compliance: A Tabletop Study of Manufacturer PSIRTs <i>Jumpei Tahara and Kenji Watanabe</i>
13:10–14:20	Lunch
14:20–15:00	Workshop – Building cyber capabilities through cyber ranges
15:00–16:00	Session 3 – Human Factors & Cyber Resilience Session Chair: <i>Eliana Stavrou</i> , Open University of Cyprus
15:00–15:20	Piloting Cyber Security Communities of Support for Small-and-Medium-sized Enterprises <i>Neeshe Khan, Matthew Rand, Ram Herkanaidu, Steven Furnell, Jason R. C. Nurse and Maria Bada</i>
15:20–15:40	Human-Layer Cyber Resilience in Non-Technical Workforces: Framework Design and Psychometric Evaluation of a Protection Motivation Theory-Grounded Training Intervention <i>Emily Rosenorn-Lanng and Vasilis Katos</i>
15:40–16:00	Analyzing Communication and Decision-Making in Ransomware Incident Response: A Graph-Based Evaluation of Tabletop Exercises in Critical Infrastructure Contexts <i>Andreas Seiler and Ulrike Lechner</i>
16:00–16:20	Coffee Break
16:20–18:00	Session 4 – AI, SOC & Cyber Threat Intelligence Session Chair: <i>Vasilis Katos</i> , Bournemouth University
16:20–16:40	Human-Centered XAI in SOCs: A Context-Aware LLM-Driven Prototype <i>Pepijn Algoedt, Nils Nodén, Gökem Kılınç Soylu and Maria Riveiro</i>
16:40–17:00	RTRank: A Retrieve-then-Rank Method for Fine-Grained TTP Annotation from Cyber Threat Intelligence Boning <i>Ding, Ziyang Yu, Xingyuan Wei, Qiujuan Lv and Yan Wang</i>
17:00–17:20	From Sandbox to Enforcement: Confidence-Qualified Threat Intelligence for Critical Infrastructure <i>Nikolaos Kekatos, Mihaela Curca, Georgios Koutidis, Mihai Nena, Tom Nianios, Robert-Ştefan Şandru, Michael Ioannou and Charalambos Bratsas</i>
17:20–17:40	CAW-Triage: Auditable Evidence Authorization for Resilient SIEM-IAM Alert Triage under Degraded Telemetry <i>Shantanu Parashar and Shatrunjay Rawat</i>
17:40–18:00	Beacon Validation Using Time-Dependent HMAC in Vendor-Specific Elements <i>Constantinos Louca and Stavros Stavrou</i>
18:30–19:45	Welcome Reception



08:30–09:00	Registration
09:00–09:30	Keynote Talk Abel Archundia-Pineda, VP OT/CPS Security - Kudelski Security From Alerts to Operational Resilience: towards a mature IT/OT Cyberdefence
09:30–10:50	Session 1 – ICS/OT & Cyber-Physical Infrastructure Security Session Chair: <i>Steven Furnell, University of Nottingham</i>
09:30–09:50	A Cybersecurity Maturity Model for Satellite Teleports: Bridging the IT/OT Operational Divide <i>Angus Blackwood, Laith Al-Jobouri and Jacques Ophoff</i>
09:50–10:10	Evaluating the Applicability of Network-Based Moving Target Defense for ICS Reconnaissance <i>Emmanouil Samanis, Joseph Gardiner and Awais Rashid</i>
10:10–10:30	Structural Evasion Resistance in Protocol-Aware IEC-104 Anomaly Detection: An Adaptive Feature-Space Attacker-Cost Analysis <i>Heinrihs Skrodelis</i>
10:30–10:50	SPECTRE-ICS: A Predictive Zero-Trust Defense Framework for AI-Augmented Threats in Industrial Control Systems <i>Tuhin Banerjee, Bhushan Bhimrao Chavan and Harpreet Singh</i>
10:50–11:10	Coffee Break
11:10–12:50	Session 2 – Resilient & Emerging Critical Infrastructure Technologies Session Chair: <i>Branka Stojanovic, Joanneum research</i>
11:10–11:30	Toward Quantum-Safe Management of Digital Nuclear Information: A Source-Derived Migration Framework for Critical Information Infrastructure <i>Yasamin Fayyaz</i>
11:30–11:50	Resilient Positioning, Navigation, and Timing (PNT) for Transport and Autonomous Operations <i>Mika Saajasto, Toni Hammarberg, Sanna Kaasalainen and Zahidul M. Bhuiyan</i>
11:50–12:10	Extending Resilience through Uncertainty in Fully Distributed Systems <i>Patrick Grossenbacher, Konrad Bächler and Dieter Arnold</i>
12:10–12:30	A Resilient RV Fabric for Critical Edge-IoT Security Monitoring <i>Nikolaos Kekatos, Marinello Chintri, Panagiotis Katsaros, Alexios Lekidis, Tom Nianios, Ioannis Seitoglou, Anastasios Temperekidis and Stylianos Basagiannis</i>
12:30–12:50	An Artificial Immune System Paradigm Application into Intelligent Transportation Systems <i>Sozon Leventopoulos, Dimitris Gritzalis, Michail Leventopoulos and Nikolaos Benias</i>
12:50–14:00	Lunch
14:20–16:30	Critical Infrastructure Tour
16:30–19:00	Larnaca Tour
19:00–22:00	CRITIS 2026 Conference Dinner / Social Event





08:30–09:00	Registration
09:00–09:30	Keynote Talk Johanna Karvonen , Senior Specialist, Critical Infrastructure Protection, EU Project Coordinator (VIGIMARE, NEPTUNE), Laurea University of Applied Sciences, Finland NEPTUNE - Connecting the Pieces for Europe's Submarine Cable Resilience
09:30–10:50	Session 1 – AI-Enabled Cybersecurity & Intelligent Defence Session Chair: <i>Bernhard Hämmerli</i> , Lucerne University of Applied Sciences and Arts
09:30–09:50	Evaluating Topology-Aware LLM-Guided Search for Stealth FDI Dataset Generation <i>Mohamed Ibrahim, Mamdouh Muhammad, Corinna Seiwerth and Loui Al Sardy</i>
09:50–10:10	A Hybrid RAG-Based QA System for Critical Infrastructure Resilience <i>Maria Simosi, Efthymios Chondrogiannis, Georgios Palaiokeas, Rozalia Nikopoulou, Antonis Litke and Theodora Varvarigou</i>
10:10–10:30	Security Analysis of Prompt Injection Attacks in Healthcare Vision-Language Models <i>Herdís Eline Oftedro, Sarang Shaikh and Aida Akbarzadeh</i>
10:30–10:50	Architecting the Secure AI SOC: A Neurosymbolic Framework for Pipeline Integrity and Threat Mitigation <i>Anna Gazani, Spyridon Kounoupidis, Panagiotis Katsaros, Nikolaos Kekatos, Grigorios Tsoumakas and Georgios Koutidis</i>
10:50–11:10	Coffee Break
11:10–12:50	Session 2 – Security Architectures, Assessment & Defence Session Chair: <i>Panagiotis Katsaros</i> , Aristotle University of Thessaloniki
11:10–11:30	Optimizing Countermeasure Selection in Standard-Compliant Cybersecurity Risk Assessment <i>Manuel Drago, Paolo Lollini and Andrea Bondavalli</i>
11:30–11:50	A Compliance-Aware Cyber Range Framework: Ephemeral Dual-Cluster Architecture on OpenStack and Kubernetes <i>Cosimo Melella, Alejandro Arenas, Manuel Diaz, Federico Carvajal Rodrigo and Aida Akbarzadeh</i>
11:50–12:10	Adaptive DNS Filtering at the Resolver Level: Confidence-Weighted Hybrid Reputation Scoring with Retrieval-Augmented Machine Learning <i>Stefan Röthlisberger</i>
12:10–12:30	Implementation of a Multi-Layered Secure IoT-based System, with Smart Health Embedded Services <i>Anna Zacharaki, Kyriaki Tsantikidou and Nicolas Sklavos</i>
12:30–12:50	A Formalised Security Analysis of Safety Instrumentation System Synchronisation in Power System Automation <i>Stephen D. Wolthusen and Arzhan Tong</i>
12:50–14:00	Lunch
14:00–15:40	Session 3 – Human & Organisational Dimensions of Critical Infrastructure Cybersecurity Session Chair: <i>Lars Buettner</i> , Hochschule Bremen City University of Applied Sciences
14:00–14:20	Understanding the Cyber Incident Response of Power System Practitioners <i>Ronak Tejas Shah, Michel van Eeten, Wolter Pieters and Simon Parkin</i>
14:20–14:40	Cybersecurity Considerations of EV Owners in Adopting Smart Charging: A Q-Methodology Study <i>Ronak Tejas Shah, Daan van Gils, Daniel Oosterink, Justin Bhatti, Koos Meesters, Wolter Pieters, Simon Parkin and Michel van Eeten</i>
14:40–15:00	The German Cyberdome Between Citizen Expectations and Corporate Readiness: A Principal-Agent Analysis Based on a Stakeholder-Oriented Cross-Sectional Survey <i>Lars Buettner and Sven Ludwig</i>
15:00–15:20	Cybersecurity Fatigue: Insight into the Connection Between Preventative Measures and Increased Vulnerability <i>Elias Kringsman, Radek Strouf, Erik Bergström and Joakim Kävrestad</i>
15:20–15:40	Beyond the Rational Actor: Psychologically Informed Deception Design and Threat Intelligence for the Maritime Domain <i>Cosimo Melella, Francesco Ferazza, Konstantinos Mersinas and Ricardo Lugo</i>
15:40–16:00	Coffee Break
16:00–16:30	Closing Remarks & End of CRITIS 2026