CRITIS 2026 –Technical Programme

28–30 September 2026

Day 1 - Monday, 28 September 2026

Time	Programme
8.30-9.00	**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**
09:20–09:50	**Invited Speaker 1**
09:50–10:10	***Coffee Break***
10:10–11:30	**Session 1 – Critical Infrastructure Risk & Resilience**
10:10–10:30	From National Hazard Scenarios to Board-Level Resilience: A Framework for Critical Infrastructure Operators *Peter Burgherr, River Huang, Mirjam Gruber-Durrer, Rolf Scheiber and Marco Gruber*
10:30–10:50	Resilience-Aware Criticality Assessment for Critical Information Infrastructures *Fatimah Faraji and Haralambos Mouratidis*
10:50–11:10	A Gibbs Construction for Directional Cyber Cascades in Critical Infrastructure *Eleftherios Eleftheriadis, Maryam Sheikhi Garjan, Hannes Federrath and Ioannis Mavridis*
11:10–11:30	The Non-Composability of Resilience Certificates Across Critical Infrastructure Domains *Branka Stojanovic*
11:30–12:50	**Session 2 – Governance, Regulation & Compliance**

Time	Programme
11:30–11:50	Procurement Law vs. Security Reality: The Challenge of Specifying, Verifying, and Enforcing Cybersecurity Requirements in CI Procurement
	Fabio Friedli and Luana Herzog
11:50–12:10	Threat-Led Penetration Testing after DORA: Comparing TLPT, TIBER-EU, CBEST and iCAST
	Kevin Illi
12:10–12:30	AuditLens: A Proxy-Reference Benchmark for Cross-Framework Compliance Mapping in EU Audit Preparation
	Hani Ali Bacha, Simon Rohlmann and Nicolai Kuntze
12:30–12:50	Reporting Authority in EU CRA Article 14 Compliance: A Tabletop Study of Manufacturer PSIRTs
	Jumpei Tahara and Kenji Watanabe
12:50–14:00	***Lunch***
14:00-14:40	**Workshop** – Building cyber capabilities through cyber ranges
14:40-15:20	**Session 3 – Human Factors & Cyber Resilience**
14:40–15:00	Piloting Cyber Security Communities of Support for Small-and-Medium-sized Enterprises
	Neeshe Khan, Matthew Rand, Ram Herkanaidu, Steven Furnell, Jason R. C. Nurse and Maria Bada
15:00–15:20	Human-Layer Cyber Resilience in Non-Technical Workforces: Framework Design and Psychometric Evaluation of a Protection Motivation Theory-Grounded Training Intervention
	Emily Rosenorn-Lanng and Vasilis Katos
15:20–15:40	Analyzing Communication and Decision-Making in Ransomware Incident Response: A Graph-Based Evaluation of Tabletop Exercises in Critical Infrastructure Contexts
	Andreas Seiler and Ulrike Lechner
15:40–16:00	***Coffee Break***
16:00–17:20	**Session 4 – AI, SOC & Cyber Threat Intelligence**
16:00–16:20	Human-Centered XAI in SOCs: A Context-Aware LLM-Driven Prototype

Time	Programme
	Pepijn Algoedt, Nils Nodén, Görkem Kılınç Soylu and Maria Riveiro
16:20–16:40	RTRank: A Retrieve-then-Rank Method for Fine-Grained TTP Annotation from Cyber Threat Intelligence
	Boning Ding, Ziyang Yu, Xingyuan Wei, Qiujian Lv and Yan Wang
16:40–17:00	From Sandbox to Enforcement: Confidence-Qualified Threat Intelligence for Critical Infrastructure
	Nikolaos Kekatos, Mihaela Curca, Georgios Koutidis, Mihai Nena, Tom Nianios, Robert-Ștefan Șandru, Michael Ioannou and Charalambos Bratsas
17:00–17:20	CAW-Triage: Auditable Evidence Authorization for Resilient SIEM-IAM Alert Triage under Degraded Telemetry
	Shantanu Parashar and Shatrunjay Rawat

Day 2 - Tuesday, 29 September 2026

Time	Programme
8.30-9.00	Registration
09:00–09:30	**Invited Speaker 2**
09:30–10:50	**Session 1 – ICS/OT & Cyber-Physical Infrastructure Security**
09:30–09:50	A Cybersecurity Maturity Model for Satellite Teleports: Bridging the IT/OT Operational Divide *Angus Blackwood, Laith Al-Jobouri and Jacques Ophoff*
09:50–10:10	Evaluating the Applicability of Network-Based Moving Target Defense for ICS Reconnaissance *Emmanouil Samanis, Joseph Gardiner and Awais Rashid*
10:10–10:30	Structural Evasion Resistance in Protocol-Aware IEC-104 Anomaly Detection: An Adaptive Feature-Space Attacker-Cost Analysis *Heinrihs Skrodelis*
10:30–10:50	SPECTRE-ICS: A Predictive Zero-Trust Defense Framework for AI-Augmented Threats in Industrial Control Systems *Tuhin Banerjee, Bhushan Bhimrao Chavan and Harpreet Singh*
10:50–11:10	***Coffee Break***
11:10–12:30	**Session 2 – Resilient & Emerging Critical Infrastructure Technologies**
11:10–11:30	Toward Quantum-Safe Management of Digital Nuclear Information: A Source-Derived Migration Framework for Critical Information Infrastructure *Yasamin Fayyaz*
11:30–11:50	Resilient Positioning, Navigation, and Timing (PNT) for Transport and Autonomous Operations *Mika Saajasto, Toni Hammarberg, Sanna Kaasalainen and Zahidul M. Bhuiyan*
11:50–12:10	Extending Resilience through Uncertainty in Fully Distributed Systems *Patrick Grossenbacher, Konrad Bächler and Dieter Arnold*

12:10–12:30	A Resilient RV Fabric for Critical Edge-IoT Security Monitoring *Nikolaos Kekatos, Marinelio Chintri, Panagiotis Katsaros, Alexios Lekidis, Tom Nianios, Ioannis Seitoglou, Anastasios Temperekidis and Stylianos Basagiannis*
12:30–14:00	***Lunch***
14:00 -16:30	**Critical Infrastructure Tour**
16:30 -18:30	**Larnaca Tour**
20:00-	**CRITIS 2026 Conference Dinner / Social Event**

Day 3 - Wednesday, 30 September

Time	Programme
8.30 -9.00	Registration
09:00–09:30	**Keynote:** NEPTUNE - Connecting the Pieces for Europe's Submarine Cable Resilience **Johanna Karvonen,** Senior Specialist, Critical Infrastructure Protection, EU Project Coordinator (VIGIMARE, NEPTUNE), Laurea University of Applied Sciences, Finland
09:30–10:50	**Session 1 – AI-Enabled Cybersecurity & Intelligent Defence**
09:30–09:50	Evaluating Topology-Aware LLM-Guided Search for Stealth FDI Dataset Generation *Mohamed Ibrahim, Mamdouh Muhammad, Corinna Seiwerth and Loui Al Sardy*
09:50–10:10	A Hybrid RAG-Based QA System for Critical Infrastructure Resilience *Maria Simosi, Efthymios Chondrogiannis, Georgios Palaiokrassas, Rozalia Nikopoulou, Antonis Litke and Theodora Varvarigou*
10:10–10:30	Security Analysis of Prompt Injection \newline Attacks in Healthcare Vision-Language Models *Herdis Eline Oftebro, Sarang Shaikh and Aida Akbarzadeh*
10:30–10:50	Architecting the Secure AI SOC: A Neurosymbolic Framework for Pipeline Integrity and Threat Mitigation *Anna Gazani, Spyridon Kounoupidis, Panagiotis Katsaros, Nikolaos Kekatos, Grigorios Tsoumakas and Georgios Koutidis*
10:50–11:10	***Coffee Break***
11:10–12:50	**Session 2 – Security Architectures, Assessment & Defence**
11:10–11:30	Optimizing Countermeasure Selection in Standard-Compliant Cybersecurity Risk Assessment *Manuel Drago, Paolo Lollini and Andrea Bondavalli*
11:30–11:50	A Compliance-Aware Cyber Range Framework: Ephemeral Dual-Cluster Architecture on OpenStack and Kubernetes *Cosimo Melella, Alejandro Arenas, Manuel Diaz, Federico Carvajal Rodrigo and Aida Akbarzadeh*

11:50–12:10 Adaptive DNS Filtering at the Resolver Level: Confidence-Weighted Hybrid Reputation Scoring with Retrieval-Augmented Machine Learning

Stefan Röthlisberger

12:10–12:30 Implementation of a Multi-Layered Secure IoT-based System, with Smart Health Embedded Services

Anna Zacharaki, Kyriaki Tsantikidou and Nicolas Sklavos

12:30-12:50 A Formalised Security Analysis of Safety Instrumentation System Synchronisation in Power System Automation

Stephen D. Wolthusen and Arzhan Tong

12:50–14:00 Lunch

14:00–15:40 Session 3 – Human & Organisational Dimensions of Critical Infrastructure Cybersecurity

14:00–14:20 Understanding the Cyber Incident Response of Power System Practitioners

Ronak Tejas Shah, Michel van Eeten, Wolter Pieters and Simon Parkin

14:20–14:40 Cybersecurity Considerations of EV Owners in Adopting Smart Charging: A Q-Methodology Study

Ronak Tejas Shah, Daan van Gils, Daniel Oosterink, Justin Bhatti, Koos Meesters, Wolter Pieters, Simon Parkin and Michel van Eeten

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

Lars Buettner and Sven Ludwig

15:00-15:20 Cybersecurity Fatigue: Insight into the Connection Between Preventative Measures and Increased Vulnerability

Elias Krigsman, Radek Strouf, Erik Bergström and Joakim Kävrestad

15:40–16:00 Coffee Break

16:00–16:30 Closing Remarks & End of CRITIS 2026