

24th European Conference on Cyber Warfare and Security
Virtual ECCWS 2025 Timetable
The German Research Center for Artificial Intelligence - DFKI in Kaiserslautern, Germany
26 - 27 June 2025
Programme is in German Summertime (GMT+2)

Thursday 26 June

08:30	Zoom Room 1 Opens		
09:00	Zoom Room 1 Welcome to the Conference:		
09:20	Keynote Address: Dr. Jörn Hoffmann, bitaggregat, Leipzig, Germany From Silicon to Sovereignty: Resilient Computing for Tomorrow's Cyber Battles		
10:05	Break and conference splits into three streams		
	Stream A: Situational Awareness and Attacks on Infrastructure Chair: Paresh Rathod Zoom Room 1	Stream B: AI and Financial Issues Chair: Tapiwa Gundu Zoom Room 2	Stream C: Detection, Sharing and Cognitive Warfare Chair: Zoom Room 3
10:10	Enhancing Operational Planning and Situational Awareness for Cyberspace Operations (CO), Based on the Crossed Swords Exercises Marko Arik , Adrian Nicholas Venables and Rain Ottis , Tallinn University of Technology, Estonia	The Utilization of Quantum Computing for AI Applications in Classical IT Network Environments Lekam Mudiyanselage Uthpala and Monika Wolfmayr , Jamk University of Applied Sciences, Jyväskylä, Finland	Enhancement of Phishing Email Detection with Bayesian Networks: A Cyber Security Training Module Dimitrios Lappas and Giorgos Fesakis , University of the Aegean, Rhodes, Greece and Panagiotis Karampelas , Hellenic Air Force Academy, Greece
10:30	A Survey of Power and Electromagnetic-Based Side Channel Attack Countermeasures Robert Kramer , et al., Air Force Institute of Technology, Wright-Patterson Air Force Base, USA	Risks and Control Measures for Assuring the Safety of Trustworthy Autonomous Weapon Systems Clara Maathuis , Open University of the Netherlands, Heerlen, The Netherlands and Kasper Cools , Belgian Royal Military Academy, Belgium	Towards a Comprehensive Cybersecurity Information Sharing Framework Sipho Ngobeni , Unarine Manari et al, Council for Scientific and Industrial Research, Pretoria, South Africa
10:50	Building a Culture of Cybersecurity Awareness in Libraries: A Systematic Review of Best Practices and Frameworks Edmont Pasipamire , The IIE Rosebank College, Cape Town, South Africa	Multi-Agent System for Courses of Action Comparison in Military Operations Clara Maathuis , Open University of the Netherlands, Heerlen, The Netherlands	Hybrid Modelling for Anomaly Detection in Industrial Control Systems Vincent Boerjan , Stefano Schivo , and Clara Maathuis , Open University of the Netherlands, The Netherlands
11:10	The Impact of NIS2 Directive on the Cybersecurity of Finland's Transportation Sector Jyri Rajamäki and Tiina Kyrö, Laurea University of Applied Sciences, Espoo, Finland	Envisioning New Ways to Use Economic Sanctions and Weaponisation in the Future Elina Hiltunen , Mika Aalto , Mika Hyttiäinen and Aki-Mauri Huhtinen , Finnish National Defence University Helsinki, Finland	Demonstration and Evaluation of Defensive Cyber Operations Decision-Making Model Pietari Sarjakivi , Jouni Ihanus and Panu Moilanen , University of Jyväskylä, Finland
11:30	Enhancing Cyber Threat Intelligence (CITO) Exchange: A Governance Model for the DYNAMO Platform Jyri Rajamäki and Anup Nepal, Laurea University of Applied Sciences, Finland and Ioannis Chalkias, Ethniko Kentro Erevnas Kai Technologikis Anaptyxis, Greece	A Web Scraping Approach Towards Cryptocurrency Investigations Bongani Mawhayi and Louise Leenan , University of the Western Cape, Cape Town, South Africa and Johnny Botha, Council for Scientific and Industrial Research, South Africa	The European Union and the protection of critical space infrastructure from cyber-threats: a strategic approach? Alexandru Georgescu and Andreea Dinu , National Institute for Research and Development in Informatics, Romania and Clara Cotroneo , Global Governance Institute,
11:50	Getting Devices Ready for Zero Trust Architecture by Complying with Richard Bejtlich's MICCMAC Framework Isaac Ojeh , MorphHats InfoSecure, Waterloo, Canada	Strengthening AI Critical Infrastructure Security with the MIT AI Risk Repository and MITRE ATLAS Frameworks Jami Carroll , Harvard University, Somerset, USA	
12:10	Lunch Break	Lunch Break	Lunch Break

	Stream A: Ethical Issues Chair: Rich Wilson Zoom Room 1	Stream B: Education Chair: Tim Pappa Zoom Room 2	Stream C: PhD and Masters Colloquium Chair: Zoom Room 3
13:00	Augmenting cybersecurity awareness at critical infrastructures in developing countries through a cybersecurity governance maturity model Hendrik Zwarts and Basie Von Solms University of Johannesburg, Johannesburg, South Africa and Jaco Du Toit , Akademia, South Africa	Implementing the European Cybersecurity Skills Framework (ECSF): A Case Study of EU Innovation Projects Paresh Rathod and and Jyri Rajamäki , Laurea University of Applied Sciences, Finland, Espoo, Finland and Kitty Kioskli , trustilio B.V, The Netherlands	Adapting Bot Detection Models for Romania's Disinformation Ecosystem Stefania - Elena Stoica , "Carol I" National Defence University, Romania (PhD)
13:20	Cyberwarfare and Critical Infrastructure Xavier Ramage , Khutso Lebea and and Siphesihle Sithungu , University of Johannesburg, Johannesburg, South Africa	Hyper-connected: Information Security Education for Today's Children Elekanyani Mukondeleli , et al., CSIR, Pretoria, South Africa	Opportunities and Challenges for Cross-Domain Cyber Threat Intelligence Sharing Towards Whole-of-Society Resilience Bandara Dissanayake M., and Mamello Thinyane University of South Australia, (PhD)
13:40	Security Comparison of Powerline Communications and WiFi Technologies for Internet of Things Jacob Dimmitt , Mark Reith and Derek Neal , Air Force Institution of Technology, USA	Proposal of Harmonising Cybersecurity Professional Education and Training (CPET) in the European Union (EU): Exploratory Study Paresh Rathod , Jyri Rajamäki , Laurea University of Applied Sciences, Espoo, Finland and Nineta Polemi , University of Piraeus, Greece	Bridging Knowledge Gaps: Advancing Cybersecurity Education via Absorptive Capacity & Collaboration Reza Esmaili and Gerda van Dijk University of Humanistic Studies, Netherlands (PhD)
14:00	Weaponizing Connectivity: The Role of Social social media in modern subversion Daphne Damons , Laurel Shield Consultancy, Pretoria, South Africa (Non-Academic)	A Maturity Model for Password Security Education Georgia Barnard and Tapiwa Gundu , Nelson Mandela University, South Africa	Journalists' Reflections on Fake News: Insights from Qualitative Interviews Anastasiia Iufereva , IULM, Milan, Italy (PhD)
14:20	Hitler Youth, Ukrainian Denazification and US Attack on Education: Ethical and Anticipated Ethical Issues Richard Wilson , Towson University, Towson Md, United States (Academic, Main) EWS-507	Agent-Based Model for Proportionality Assessment in Military Operations Clara Maathuis , Open University of the Netherlands, Heerlen, The Netherlands	Identification of the Emerging Cyber Security Threat Sources Tiina Leppänen , and Jussi Simola , University of Jyväskylä, Jyväskylä, Finland (PhD)
14:40	Building Trust in Smart TVs: AI-Enhanced Cybersecurity for User Privacy and Ethical Monetization Nakul Singh , Independent Researcher, San Francisco, USA, et al.	Strengthening Cybersecurity Resilience in Agriculture through Educational Interventions: A Case Study of the Ponca Tribe of Nebraska George Grispos , Logan Mears, University of Nebraska-Omaha, Nebraska, USA and Larry Loucks , Ponca Economic Development Corporation, USA	Cybersecurity Challenges and Mitigations for LLMs in DoD Applications Corinne Yorkman and Mark Reith , Air Force Institute of Technology, USA (Masters)
15:00	Break	Break	Break
	Stream A: Mini Track on Smart Systems Under Siege: Analyzing Cybersecurity Risks and Real-World Incidents Chair: Nakul Singh Zoom Room 1	Stream C: Cyber Issues Chair: Andreas Weinand Zoom Room 2	Stream C: Cyber Issues Chair: Pascal Ahr Zoom Room 3
15:20	Enhancing Risk Management on IoT Medical Devices Ilkka Tikanmäki , Jyri Rajamäki , et al, Laurea University of Applied Sciences, Espoo, Finland	Deconstructing Dice and Destiny: Reverse Engineering for Deterministic Insights into a Probabilistic Game William Mahoney , University of Nebraska at Omaha, Nebraska, USA, Hans-Jürgen Schäfer, The Backgammon-Computer Rating List, Gremany and Øystein Schonning-Johansen , University of Stavanger, Norway	Unlikely Bedfellows? Visualizing Integration of Whaley's Expanded Deception Framework and Soviet Reflexive Control Models to Collect Unique Attacker Behaviors Tim Pappa , Capitol Technology University, Laurel, USA and Aadam Dirie , Independent Researcher, USA
15:40	Supervised Machine Learning Model for Cyberattacks Detection and Prevention in an Anti-poaching Cybersecurity System Hannah Slettevold and Kristin Whittaker , Stellenbosch University, South Africa (Presentation only)	Assessing the Security Vulnerabilities and Countermeasures of Connected and Smart Devices Dimah Almani , University of Nottingham, Nottingham, UK	Security Vulnerability Assessment on Threads Application through Digital Forensics Analysis Shanika Perera , Ahsan Islam and Cihan Varol , Sam Houston State University, Huntsville, USA
16:00	EDUHints: A Human-in-the-Loop Small Language Model Hint Generation System for Cybersecurity Education Taylor Wolff , The Evergreen State College, USA, Jens Mache , Lewis & Clark College, USA, et al. (WIP)	Supporting Amphibious Forces with Partnered U.S. – Japan Cyber Operations Harrison Rashley , Wade Huntley and Timothy Shives , Naval Postgraduate School, USA	NATO Self-Defense – Is Article 5 the Right Framework for Responding to Sub-kinetic Cyber Aggression? Shreyas Kumar , Texas A&M University, College Station, USA and Gourav Nagar , Independent Researcher, USA et al
16:20	Developing Cloud-Based Cyber Capacity Building Platforms David Tileston , Richard Welle, et al Carnegie Mellon University, Software Engineering Institute, Pittsburgh, United States	Strategic Impacts of the Cyber Offense/Defense Balance Wade Huntley , Naval Postgraduate School, Monterey, USA and Timothy Shives , Naval Postgraduate School, USA	Sabermetrics for Cyber: Collecting and Analyzing User Activity Data from Ephemeral Exercises Jael Rivera , Jarrett Booz and Josh Hammerstein Carnegie Mellon University, USA
16:40	Close of Conference Day	Close of Conference Day	Close of Conference Day

	Friday 27 June		
09:00	Opening Messages		
09:05	Keynote Address: Hekma Chaari, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany German perspective on Trustworthiness in 6G		
09:50	Introduction to ECCWS 2026		
	Virtual Poster Session Chair: Zoom Room 1	Stream B: Cyber Issues Chair: Zoom Room 2	Stream B: Healthcare and Trust Chair: Annika Tjabben Zoom Room 3
10:10	The Great Replacement, Narratives and Phenomenology: Ethical and Anticipatory Ethical Considerations Richard Wilson , Towson University, USA Social Media Companies, Platforms or Publishers? Ethical and Anticipated Ethical Issues Richard Wilson, Towson University, USA Benchmarking practitioner-level trust in ICT: Countering AI-generated content, deepfakes, and disinformation	Civic Cyber Defence / Resilience: A Review of Approaches Matthew Warren , RMIT, Melbourne, Australia and Marius Laurinaitis and Inga Malinauskaitė-van de Castel , Mykolas Romeris University, Lithuania	Enhancing Cybersecurity in Healthcare: The KyberSoTe Project's Approach to Mitigating Cyber Threats Ilkka Tikanmäki , Laurea University of Applied Sciences, Espoo, Finland, Tiina Blek , Johanna Niskakangas , JAMK University of Applied Sciences, Finland and Katja Varamäki , Tampere University of Applied Sciences, Finland
10:30	Allison Wylde , Data Science for Common Good, UK, et al (Invited Poster) MISP Management Models for Effective Threat Intelligence in Cybersecurity Saku-Lassi Eljaala , et al., Laurea University of Applied Sciences, Finland (WIP) AI Governance: Achieving EU AI Act Compliance in the Dynamo Project Francis Burns et al., Laurea University of Applied Sciences, Finland (WIP)	Understanding Cybersecurity Threats to Implantable Medical Devices: A Review Austin James , University of East London, UK and Lucas Potter and Xavier-Lewis Palmer , BiosView Labs, Oswego, USA	Cybersecurity training in the healthcare domain Ilkka Tikanmäki , Laurea University of Applied Sciences, Espoo, Finland
10:50	Navigating the Cyber Resilience Act: Implications for the Dynamo-Horizon Project Jyri Rajamäki et al., Laurea University of Applied Sciences, Espoo, Finland (WIP) Anchoring Security in Maritime: Defining and Protecting Critical Assets for Business Continuity Ahti Mansner , et al., Laurea University of Applied Sciences, Finland (WIP) Evaluating the Effectiveness of Psychological Prompt Injection Attacks on Large Language Models for Social Engineering Artifact Generation	Crisis communication guidelines to support cyber resilience Eveliina Hytönen and Harri Ruoslahti , Laurea University of Applied Sciences, Finland	Cognitive Hacking and Social Engineering in Healthcare: Exploiting Human Behaviour Raheemat Adefabi , Teesside University, Middlesbrough, UK et al
11:10	Eve Cohen and Thomas Heverin , Girls Learn Cyber, LLC, Philadelphia, USA (WIP) Neuro-Symbolic AI Vulnerability Assessment Clara Maathuis , Open University of the Netherlands (Invited Poster) Fine-Tuning Timestamps in Digital Forensics Isaac Ojeh , PayFacto, Waterloo, Canada (invited Poster)	Starlink, The War in Ukraine and Geopolitics: Ethical and Anticipated Ethical Issues Richard Wilson , Towson University, USA	Strategies to Tackle Disinformation: Operationalizing Zero Trust Allison Wylde , GCU Data Science for the Common Good, London, UK
11:30	Best Practices in Cybersecurity Education: Triological Learning in the ManagIDITH Master's Program Jyri Rajamäki , Laurea University of Applied Sciences, Finland (invited Poster) A Two-Way Street: Using Power Apps as a Disruptive Cyber Deception Effect to Dazzle Defenders and Attackers Tim Pappa , Teja Sane , Capitol Technology University, Laurel, USA (invited Poster)	Cyberbiosecurity in Healthcare: Securing Medical Devices from Digital and Biological Threats Valentine Okpalanozie , TMF, Lagos, Nigeria	Designing for cyber situational awareness: Initial results of a literature review Mikko Salminen , National Defence University, Helsinki, Finland
12:00	Close of Conference	Close of Conference	Close of Conference

<p align="center">24th European Conference on Cyber Warfare and Security ECCWS 2025 on 26 - 27 June 2025 The German Research Center for Artificial Intelligence - DFKI in Kaiserslautern, Germany Address: DFKI, Trippstadter Str. 122, 67663 Kaiserslautern</p>			
Thursday 26 June			
08:30	Conference Registration and Coffee		
09:00	Room: NOETHER Welcome to the Conference: Christoph Lipps, German Research Center for Artificial Intelligence, Kaiserslautern, Germany & Dr.-Ing. habil. Bin Han, University of Kaiserslautern (RPTU), Germany		
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16:50	Close of Conference Day		
19:30	In Person Participants: Conference Dinner at Spinnrädle - Schillerstrasse 1 D-67655 Kaiserslautern		

	Friday 27 June	
09:00	Room: NOETHER Opening Messages	
09:05	Keynote Address: Hekma Chaari, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany German perspective on Trustworthiness in 6G	
09:50	Introduction to ECCWS 2026	
10:00	Break and Poster Presentations	
	Stream A: Social Media and Mobile Networks Chair: Matthias Rüb Room: NOETHER	Stream B: Cyber Issues Chair: Tim Grant Room: PASCAL
10:40	An architecture for voice-based authentication and authorization with deepfake detection Fabian Martins Da Silva , Baladithya Balamurugan and John Hakim, Amazon Web Services, USA	Cyber Threat Intelligence and IoCs and IoAs search on the Dark Web Martti Lehto and Timo Koskimäki, University of Jyväskylä, Finland
11:00	Integrating Reconfigurable Intelligent Surfaces into Next-Generation Mobile Networks: Comparative Simulations based on Simu 5G Wenqing Dai , Christoph Lipps and Hans Schotten , Intelligent Networks Research Group, German Research Center for Artificial Intelligence, Kaiserslautern, Germany	Signalling Cyber Deterrence Through D3FEND Kimmo Halunen , University of Oulu, Finland and Maria Keinonen , National Defence University, Helsinki, Finland
11:20	Security and Privacy Challenges in VLC-based V2X Communications: An Overview and Evaluation Yorman Munoz , Ihab Alzalam et al, DFKI GmbH, Kaiserslautern, Germany	Instant Friend-or-Foe Identification for Stealth Devices in Coalition-Drone Swarms Christina Lassfolk , Aalto University, Espoo, Finland and Hannu Kari , NDU, Finland
11:40	Enhancing healthcare data security using blockchain Sheunesu Makura , Hein Venter and Azola Lukhozi , University of Pretoria, Pretoria, South Africa	Evaluating Deception Theories for Applicability to Cyber Operations Tim Grant , R-BAR, Benschop, Netherlands and Simon Henderson , Deception by Design, Scotland, UK
12:00	Transformer-Based File Fragment Type Classification for File Carving in Digital Forensics Andrey Guzhov and Tobias Wirth , German Research Center for Artificial Intelligence (DFKI), Kaiserslautern, Germany	Detecting Rogue Switch and Device Behavior Using Network Anomalies in LAN Vijay Bhuse , Vijay Kanipakam , Rajvardhan Patil and Xinli Wang Grand Valley State University, USA
12:20	Lunch Break	
	Stream A: IoT Chair: Room: NOETHER	Stream B: Cyber Issues Chair: Johnny Botha Room: PASCAL
13:30	Wireless Body Area Networks in Healthcare: Evolution, Challenges, and Pathways to Innovation Jan Herbst , Jan Petershans , Seyedeh Ghazal Shobairian and Hans Schotten , Intelligent Networks Research Group, German Research Center for Artificial Intelligence, Kaiserslautern, Germany	Analysis of a Cryptocurrency Investment Scam: Pig Butchering Johnny Botha , Kreaan Singh, CSIR, Midstream, South Africa and Louise Leenen , University of Western Cape, South Africa
13:50	E-health systems for remote and disaster-resilient digital environments Aarne Hummelholm , University of Jyväskylä, Tampere, Finland and Pekka Neittaanmäki , University of Technology, Lappeenranta, Finland	Securing the Skies: Innovating Cybersecurity Governance for India's Emerging Small Airports Shreyas Kumar , et al., Texas A&M University, College Station, USA
14:15	Summary of the conference and Award to the winner of the best PhD paper and Best Poster Close of Conference	
	Poster Presentations	
	Posters will be presented on Friday Morning during the coffee break. Please give your poster to the registration desk on arrival and we will display it for you.	
	EDUHints: A Human-in-the-Loop Small Language Model Hint Generation System for Cybersecurity Education Taylor Wolff , The Evergreen State College, USA, Jens Mache , Lewis & Clark College, USA, et al. (WIP)	Non-terrestrial network for remote island of Pacific ocean" Aarne Hummelholm , University of Jyväskylä, Tampere, Finland (Invited Poster)
	Blurred lines AI, confidentiality and the future of trade secrets. Daphne Damons , Laurel Shield Consultancy, Pretoria, South Africa (invited Poster)	QML-Sec: "Survey of Attackvectors on Quantum Machine Learning Marc Maußner , infoteam Software AG, Bubenreuth, Germany and Volker Reers , Qseidon GmbH, Gütersloh, Germany (invited Poster)
	An AI-Powered Approach to File Carving in Digital Forensics—Undo Data Loss with Style Authors: Andrey Guzhov , Researcher, German Research Center for Artificial Intelligence (DFKI), Kaiserslautern, Germany, et al	