

	25th European Conference on Cyber Warfare and Security - ECCWS 2026 Physical Timetable at The Exchange Building at The University of Nottingham, UK 29 - 30 June 2026		
	Sunday 28 June		
18:00-	Welcome Drink and Pre-Conference Registration, The Jubilee Hotel (on campus) - until 19:00		
	Monday 29 June		
08:30	Conference Registration and Coffee		
09:00	Welcome and opening to the Conference: Prof. Steven Furnell & Dr Dimah Almani Room LT1		
09:15	Keynote Address: Dr Lorna Kirkby, Department for Science, Innovation and Technology of the UK Government <i>Securing the Digital Future: The UK Government's Approach to Cyber Security</i>		
10:00	Conference splits into streams		
	Stream A: Scams and Authentication Chair: Siphesihle Sithungu Room: LT1	Stream B: Competencies Chair: Raymond Hagen Room: C33	
10:20	On Definition of Vulnerability Discovery Simo Huopio , and Erno Pasanen , Finnish Defence Research Agency (FDRA), Riihimäki, Finland EWS-045	Beyond the Dashboard: Unseen Cybersecurity Vulnerabilities Caused by User Behaviour in Connected and Autonomous Vehicles Systems Dimah Almani , Shaqra University, Riyadh, Saudi Arabia EWS-034	
10:40	Leveraging Open-Source Intelligence to Combat Cryptocurrency Investment Scams Johnny Botha , CSIR, Pretoria, South Africa and Louise Leenen , University of Western Cape, South Africa and Abraham Berkman, Breadcrumbs, Singapore EWS-048	Digital State Erasure: Data as Both a Target and a Vector of Political and Military Influence Mari Ristolainen and Veikko Siukonen , Finnish Defence Research Agency, Riihimäki, Finland EWS-044	
11:00	Privacy Under Pressure: Assessing Online Commercial Surveillance Countermeasures and Gaps Christian Preti , USA Military Academy, West Point, USA, Nicholas Harrell and Alexander Master , Army Cyber Institute, USA EWS-078	Cybersecurity Management Competencies in Critical Infrastructure Organizations: A Review and Research Agenda Shehu Abubakar and Hanna Paananen , University of Jyväskylä, Finland EWS-063	
11:20	Targeting the Human Factor: OSINT in Healthcare Marie Soukupova , Brno University of Technology, Czech Republic EWS-122	The CTI Oligopoly's Contractual Firewall: Restrictive Licensing as a Structural Barrier to Collective APT Defence Raymond Andre Hagen , Norwegian University of Science and Technology, Norway EWS-076	
11:40	Audio Deepfake Generation and Detection using Deep Learning for Digital Forensic Analysis Mahra AlNaqbi and Richard Adeyemi Ikuesan , Zayed University, Abu Dhabi, UAE EWS-145	Gamified Provocations of Interest for Cybersecurity Awareness Steven Furnell , James Todd , Simon Castle-Green , and Xavier Carpent , University of Nottingham, UK and Lucija Šmid , University of Bath, UK EWS-111	
12:00	Mapping the Authentication Landscape: A User-Centric View Hanna Paananen , Naomi Woods , University of Jyväskylä, Finland and Steven Furnell , University of Nottingham, UK EWS-056	MITRE-ATT&CK Integration for Behavioural HARM-Based Attack Simulation Fomotar Buhnuyy , Femi Fasuntade , Oluwatobi Fajana , Mmedo Essien , University of Portsmouth, UK EWS-058	
12:20	Lunch Break	Lunch Break	Lunch Break

	Stream A: Mini Track on Satellite Cyber Security Chair: Jill Slay Room: LT1	Stream B: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Char Sample Room: C33	Stream C: PhD and Masters Colloquium Chair: Dr Xavier Carpent Room: C1 (10 minute presentations with time for discussion)
13:20	Cybersecurity for Military Satellite Systems: Threats, Domains and Engineering Counter Measures Chuck Easttom, Vanderbilt University and Georgetown University, Washington DC, USA EWS-120	A Framework for Privacy-Preserving Data Analytics Using Differential Privacy Huwida Said, Asma Almarzooqi and Neema Prakash, Zayed University, Dubai, UAE, Qusay Mahmoud, Ontario Tech University, Canada EWS-142	Systematically Integrating Cyber Threat Intelligence into Resilient Space-Cyber Architectures Chathura Abeydeera, Adelaide University, Melbourne, Australia (PhD) EWS-021 ‘What’s in a Name?’: How Does the UK Government and Media Construct Cyber Actors Alice Brett and Iain Reid, University of Portsmouth, UK (PhD) EWS-052 Zero-Day Vulnerabilities, Cartography and Quantification Initiative Myriam Ouraou, Thales Digital Factory, Paris, France (PhD) EWS-028 The Weaponization of the Marketing Funnel: Adapting Commercial Targeting Strategies for Disinformation Campaigns and Troll Detection Petr Gallus, Dominik Staněk, Ivo Klaban and Tomáš Ráčil, University of Defense, Brno, Czech Republic (PhD) EWS-118
13:40	Intrusion Detection System for Software-Defined Satellite Networks Uakomba Uhongora, Mamello Thinyane, Yee Wei Law and Jill Slay, Adelaide University, Australia EWS-166	Cybersecurity Entry Points to the Energy Sector and their Time-to-Compromise Engla Rencelj Ling and Göran Ericsson, Uppsala University, Sweden EWS-027	Banking Resilience: Building Cyber Incident Response in the Finnish Financial Sector Jade Karrila and Ilona Ilvonen, Tampere University, Finland (Masters) EWS-162 Warfare in the Gray Zone: The Need for a Western Paradigm Shift Austin Carter and Timothy Shives, Naval Postgraduate School, Monterey, USA (Masters) EWS-164 AI Warfare Dong Wang, Tokunbo Makanju and Yunlong Shao, New York Institute of Technology, Vancouver, Canada (Masters) EWS-183
14:00	MAGNAS: A CCTV Searching Platform for Digital Investigation Mahra Alameri, Richard Adeyemi Ikuesan, Maitha Alnoaman, Zayed and Noora Alhashmi, Zayed University, Abu Dhabi, UAE EWS-146	Sridut: Securing Multi-Controller SDN Integrity with State-Aware Multi-Consistency Storage and Provable Convergence Adir Miller, Avinash Singh and Hein Venter, University of Pretoria, South Africa EWS-035	
14:20	A Multimodal Authorization Approach for Integrated Access Control Process Shamma Alhameli, Richar Adeyemi Ikuesan, and Noof Alhammadi, Zayed University, UAE EWS-147	Operationalizing Cyber in Multi-Domain Operations: A Kill-Chain-Centric Approach for Cyber Strike Packages Timothy Shives, William Stegner, Elizabeth Pham, and Lieuwe Jan Hiemstra, Naval Postgraduate School, Monterey, USA EWS-180	
14:40	On the Establishment of Trust: Rethinking Trust in the Age of Artificial Intelligence Christoph Lipps, German Research Center for Artificial Intelligence (DFKI), Kaiserslautern, Germany and Siphelele Sinthungu, Academy of Computer Science and Software Engineering, University of Johannesburg, South Africa EWS-132	Integrating Cybersecurity Risk Management and Business Continuity of Family-Owned Businesses in Anambra State, Nigeria: A Conceptual Model Chinwe Gloria Obananya, Chidimma Odira Okeke, Chukwuemeka Odumegwu Ojukwu University, Anambra State, Nigeria and Paschal Anosike, University of West England, UK EWS-178	
15:00	Coffee Break	Coffee Break	Coffee Break
	Stream A: AI Chair: Fomotar Buhnuy Room: LT1	Stream B: Cyber Attack and Threats Chair: Johnny Botha Room: C33	
15:30	Toward Identifying Role-Aligned AI Governance Needs in Mixed-Trust Environments Bijesh Shrestha, Nicholas Harrell and Matthew Corbett and David Quigg, Army Cyber Institute, West Point, USA EWS-079	Cyber Power Through Propagation Control Gregory Carpenter, CW PENSEC LLC, Manassas, USA EWS-066	
15:50	Investigating AI Enabled Attacks and Malware Within Dark Web Ecosystems: An Updated Assessment Chuck Easttom, Vanderbilt University and Georgetown University, Washington DC, USA and William Butler, Capitol Technology University, USA EWS-119	A Lightweight Real-Time Framework for Detecting Rogue Switches in Wired Local Area Network Vijay Bhuse, Vijay Prathap, Reddy Kanipakam and Xinli Wang, Grand Valley State University, Allendale, USA EWS-101	
16:10	ECUInjector: An Automotive ECU Security Analysis Tool. James Todd, Aidan Grant, Tim Muller and Xavier Carpent, University of Nottingham, UK EWS-123	Toward Better use of Cyber Threat Models in Defence Environments Steve Johnson and Erisa Karafili, University of Southampton, UK EWS-115	
16:30	Social Engineering of AI Agents Jukka Vuorinen and Eeli Mäkinen, University of Jyväskylä, Finland EWS-064	A Capability-based Approach to Evaluate and Mitigate Identified Cybersecurity Gaps in Critical Infrastructures Eetu Laakso, Sara Soikkeli, CyberWatch Finland, Helsinki, Finland and Kimmo Kaski, Vesa Kuikka, Aalto University, Finland EWS-091	
16:50	Close of Conference Day	Close of Conference Day	Close of Conference Day
19:00	In Person Participants: Conference Dinner at Calcutta Club - Nottingham		

	Tuesday 30 June	
	Stream A: Mini Track on AI for Cyber Defence and Securing AI Chair: Hanna Paananen Room: LT1	Stream B: Cyber Treats & Compliance Auditing Chair: Chuck Easttom Room: C33
09:00	Automatically Attacking Software Reverse Engineering AI Agents Brian Crawford , Justin Phillips and Patrick McClure , Naval Postgraduate School, Monterey, CA, USA EWS-103	Hybrid Threats Against the Finnish Society: Reported by YLE News Harri Ruoslahti , Jarmo Heinonen and Ilkka Tikanmäki , Laurea University of Applied Sciences, Espoo, Finland EWS-086
09:20	Expanding Tactical Cyber Operations for Information-Age Warfare Archie Bass and Timothy Shives , Naval Postgraduate School, Monterey, USA EWS-159	What motivates cyberattacks: lack of consequences or abundance of attack vectors? Matthias Schulze and Florian Erdle , Institute for Peace Research and Security Policy at the University Hamburg (IFSH), Germany EWS-065
09:40	Data Governance Frameworks for Enabling Responsible AI in Small, Medium, and Micro Enterprises: A Systematic Literature Review Siphambili Nokuthaba and Norman Nelufule , CSIR, Pretoria, South Africa EWS-140	LLM-Assisted Forensic and Compliance Auditing for Public Sector Organizations João Santos , Tiago Cruz and Paulo Simões , University of Coimbra, CISUC, DEI, Portugal, João Henriques , Filipe Caldeira et al CISEd—Research Centre in Digital Services, Polytechnic Institute of Viseu, Portugal EWS-128
10:00	Break and Poster Presentations	
10:40	Keynote Address: Adam Joinson, University of Bath, UK Mapping the Impact of Future & Emerging Technologies on Cybersecurity Room: LT1	
11:25	Introduction to ECCWS 2027	
11:30	Conference splits into streams	
	Stream A: Cyber Operations Chair: Tim Grant Room: LT1	Stream B: Cyber Security & Cyber Warfare Chair: Nourah Alshomrani Room: C33
11:40	Cyber and Electromagnetic Activities (CEMA) in a Multi-Domain Battlefield Juha Kai Mattila , Aalto University, Helsinki, Finland EWS-054	Future Smart Devices in Future Digital Environments Aarne Hummelholm , IEEE member, Tampere, Finland, Pekka Neittaanmäki , University of Jyväskylä, Finland and Kaila Ruth , Aalto University, Finland EWS-000
12:00	Assessing Non-Kinetic Effects in Support of Military Operations: An Inference-Driven Framework Bruce Chojnacki and Nick Harrell , U.S. Army / Army Cyber Institute, West Point, USA EWS-061	Cyber Security at Universities: Comparison of Australia, Lithuania and Ukraine. Matthew Warren , RMIT, Melbourne, Australia, Marius Laurinaitis , Mykolas Romeris University, Lithuania and Mykhailo Prazian , G.E. Pukhov Institute for Modeling in Energy Engineering, Ukraine EWS-015
12:20	Offensive Cyber Space Operations: Operational Logic, Strategic Utility, and Governance in Contemporary Cyber Conflict Chuck Easttom , Vanderbilt University and Georgetown University, Washington DC, USA EWS-121	Information Campaigns in Irregular Warfare: A Framework for Expanding the Threshold of Competition Nickolas Elekes , Timothy Shives and Michael Richardson Naval Postgraduate School, Monterey, California, USA EWS-172
12:40	Evaluating the Reliability of LLMs in OSINT Investigations: A Friend or Foe? Errol Baloyi , Nokuthaba Siphambili , Ntomfuthi Ntshangase , Mpho Letshwenyo , Fhatuwani Makharamedzha , Rendani Mmbodi and Ndabezinhle Hlongwane , Council for Scientific and Industrial Research (CSIR), Pretoria, South Africa	Beyond Missiles and Marines: A Multidomain Strategy for Deterring a PRC Invasion of Taiwan Timothy Shives and Rose Kingham , Naval Post Graduate School, Monterey, USA EWS-175
13:00	Predicting Sabotaged Open-source Libraries Alexander Petty , William Glisson , Louisiana Tech University, USA and Ryan Benton , University of South Alabama, USA EWS-125	
13:20	Summary of the conference and Award to the winner of the best PhD paper and Best Poster	
13:30	Close of Conference	
	Lunch	Lunch Break
	Poster Presentations <i>Posters will be presented on Tuesday Morning during the coffee break. Please give your poster to the registration desk on arrival and we will display it for you.</i>	
	Work in Progress	Posters Only
	The future of Authentication: Not as Simple as Providing a Secure Solution Naomi Woods and Hanna Paananen , University of Jyväskylä, Finland (WIP) EWS-050	Framing Ransomware: Risk Construction and Policy Responses in the UK Cyber Governance Landscape Faria Pitafi , Royal Holloway, University of London, UK (Poster Only) EWS-169
	No Rules: Can Removing Password Creation Rules Improve Password Memorability and Security? Naomi Woods , University of Jyväskylä, Finland (WIP) EWS-075	Mapping Human Cognition to Machine Capability: A Doctrinal Suitability Framework for Alin the Joint Targeting Cycle Archie Bass , Naval Postgraduate School, Monterey, USA
	Compliant Cyber Threat Intelligence Sharing in Hospitals: Evaluating the Data Anonymisation Tool Ilkka Tikanmäki , Ammar Alhamada , James Lukins , Retina Nerjovaj , Marco Pastore and Lauri Pöllänen , Laurea University of Applied Sciences, Espoo, Finland (WIP) EWS-050	Cognitive Hallucination Attacks: A Multi-Modal Framework for Detecting AI Perception Manipulation in Autonomous Vehicles Dimah Almani , Shaqra University, Riyadh, Saudi Arabia
	Privacy-Preserving Cyber Threat Intelligence Sharing in Healthcare: Automated Anonymisation Under EU Regulations Ilkka Tikanmäki , Lillebi Seistola , Harri Silvola and Pihla Parviainen , Laurea University of Applied Sciences, Espoo, Finland (WIP) EWS-055	Constructing Coherent Deception Stories in Cyber-Kinetic Operations Tim Grant , R-BAR, Benschop, Netherlands (Poster only) EWS-186
	Enhancing Cybersecurity in Water Plant Infrastructure with SecureAI Ilkka Tikanmäki , Diana Marinca , Muhibba Saani Mohammed and Rakyen KadarSlamet , Laurea University of Applied Sciences, Espoo, Finland (WIP, Main) EWS-059	Automatic Detection and Classification of Cyberattacks Based on Ontologies and Knowledge Engineering Rita Ramos , Tiago Cruz , Paulo Simões , University of Coimbra, CISUC, DEI, Portugal, João Henriques and Filipe Caldeira , CISEd—Research Centre in Digital Services, Polytechnic Institute of Viseu, Portugal
		The APT Attribution Issue Raymond Andre Hagen , Norwegian University of Science and Technology, Norway

	25th European Conference on Cyber Warfare and Security - ECCWS 2026 Virtual Timetable hosted by ACPI and The University of Nottingham, UK 29 - 30 June 2026 Programme is in UK Summertime (GMT+1)		
	Monday 29 June		
08:30	<i>Zoom Room 1 Opens</i>		
09:00	Zoom Room 1 Welcome to the Conference: Prof. Steven Furnell & Dr Dimah Almani		
09:15	Keynote Address: Dr Lorna Kirkby, UK Government <i>Securing the Digital Future: The UK Government's Approach to Cyber Security</i>		
10:00	<i>Conference splits into three streams</i>		
	Stream A: Operations Chair: Oludolamu Onimole Zoom Room 1	Stream B: AI Chair: Nourah Alshomrani Zoom Room 2	Stream C: Security Chair: Allison Wylde Zoom Room 3
10:10	Artificial Immune System for Proportionality Assessment in Military Operations Clara Maathuis , Open University of the Netherlands, Heerlen, Netherlands EWS-016	Officers' Perceptions on Cyberwarfare Enhanced with Artificial Intelligence Maija Turunen and Maria Keinonen , Finnish National Defence University, Helsinki, Finland EWS-007	Cyber Early Warning System on Security Operations Center Timo Koskimäki , Jouni Pöyhönen , Martti Lehto , University of Jyväskylä, Finland and Mika Hällfast , DNV Cyber, Finland EWS-013
10:30	Proportionality Assessment in Military Operations with Cellular Automation Clara Maathuis , Open University, Heerlen, Netherlands EWS-017	A Potential Digital Evidence Classification Model for 5G NFV Environments using Supervised Machine Learning Algorithms. Sheunesu Makura , Lucas Blanc and Hein Venter , University of Pretoria, Pretoria, South Africa EWS-505	Detecting Obfuscated Circumvention Traffic via Anomaly Detection: A Semi-supervised Approach to Tor Snowflake Identification Ban AlOmar , Higher Colleges of Technology, Dubai, United Arab Emirates and Zouheir Trabelsi , United Arab Emirates University, United Arab Emirates EWS-020
10:50	System Dynamics Model for Proportionality Assessment in Military Operations Clara Maathuis , Open University, Heerlen, Netherlands EWS-018	A Knowledge-Driven, AI-Assisted Cyber Defence Framework for IoMT Remote Patient Monitoring Kulsoom Bughio , David Cook , Edith Cowan University, Joondalup, Australia and Abdul M. Unar, Mehran University of Engineering and Technology, Jamshoro, Pakistan EWS-160	Trustworthy Secure and Measured Boot on a Raspberry Pi 4 Torben Woltjen , Michelle Jakobi , Richard Sethmann , FRI, University of Applied Sciences Bremen, Germany and Michael Eckel , Janik Gorbracht , ATHENE Center, Fraunhofer SIT, Darmstadt, Germany EWS-062
11:10	Operationalizing a "Secure-by-Design" Checklist for COTS Satellite Components Sandeep Taileng , IEEE, Melbourne, Australia (Presentation only) EWS-087	Educating in the Age of AI: Ethical, Pedagogical, and Institutional Challenges Russell Beauchemin , Rhode Island College, Providence, USA, Doug White , Roger Williams University, USA and Aaran Leyland , Pantheon, UK (Presentation only) EWS-008	A Systematization of Knowledge on Biomarker Based Encryption Keys Mohiuddin Ahmed , Adalaide University, Australia, Matthew Gaber , Thammasat University, Pathum Thani, Thailand and Al-Sakib Khan Pathan , United International University, Bangladesh EWS-019
11:30	Defending the Cosmos: Honeypot-Based Adversary Detection and Emulation System (HADES) Yuk Tong Chan , University of South Australia, Sydney, Australia and Sam Seo and Ady James , Adelaide University, Australia EWS-024	AI Supporting Cybersecurity Curriculum Henry Collier , Thomas Edison State University, Trenton, USA EWS-047	Disinformation and Trust in Digital Environments: Expert Decisionmaking, Dismiss or Discuss? Allison Wylde , University of Kent, School of Computing, Canterbury, UK, Fabio James Petani , Université Bourgogne Europe, Burgundy School of Business, Dijon, France and Helmi Issa ESSCA, Paris, France EWS-083
11:50	Satellite Cyber Security Assurance Framework: Assured Unified SPARTA-COSMOS2 Assessment Notation (AUSCAN) Sam Seo and Jill Slay , University of South Australia, Adelaide, Australia EWS-026	RAG-H: A RAG-Hardened SOC Framework for Trustworthy Threat Intelligence and AI Defence Daniela Ceraku , Thales Digital Factory / Thales Group, Paris, France EWS-038	AI, Urban Warfare and Cyber Warfare: Ethical and Anticipated Ethical Issues Richard Wilson , and Noah Donnelly , Towson University, Towson MD, USA EWS-152
12:10	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>

	Stream A: Compliance and Vulnerability Chair: Zoom Room 1	Stream B: Cyber Issues Chair: Zoom Room 2	Stream C: Cyber Issues Chair: Bijesh Shrestha Zoom Room 3
13:00	Exploring Personalized Personnel Protection within Cyberbiosecurity Oludolamu Onimole , Independent Researcher, UK, Austin James , University of East London, UK, Denzel A. Pryor , Angel-Khalil Jones , Independent Researcher, USA, Xavier Palmer , Lucas Potter , BiosView Labs, USA and Jude Osamor , Glasgow Caledonian University, UK EWS-095	Artificial Intelligence, Drones and Cyber Warfare: Ethical and Anticipated Ethical Issues Richard Wilson , and Noah Donnelly , Towson University, Towson MD, USA EWS-151	From Evidence to Decisions: Interview-based Study of Reporting Practices in Defensive Cyber Operations Justin Raynor , Cody Dunne , Melanie Tory , Northeastern University, Boston, USA and Bijesh Shrestha , Lane Harrison , Worcester Polytechnic Institute, Worcester, USA EWS-081
13:20	A Framework for Automated STIG Compliance for Navy Ships Alan Shaffer , Margaret Graves and Gurminder Singh , Naval Postgraduate School, Monterey CA, USA EWS-039	Apache Daffodil for Network Traffic Validation Benjamin Cavanagh and Stephen Taylor , Dartmouth College, Hanover, NH, USA EWS-042	The University of Maryland's Cyber Events Database 2.0: A Systematic Framework for Analyzing Global Cyber Threats Devin EntriKin , Charles Harry and William Lucyshyn , University of Maryland; Center for Governance of Technology and Systems (GoTech), USA EWS-069
13:40	An Assessment Methodology for Learning Mission Characteristics Joshua Meise and Stephen Taylor Dartmouth College, Hanover, USA EWS-046	Enhancing Credit Fraud Detection in e-Payments Through Predictive Analytics Using Machine Learning: A Scoping Review Zenande Nondula and Moses Moyo , Rhodes University, Grahamstown, South Africa EWS-043	The Baseband Sovereignty Paradox: Anticipated Ethical and Technical Issues of Baseband Processors Richard Wilson and Noah Donnelly , Towson University, USA EWS-153
14:00	The End of Infodemic? The 2021-2024 UN Effort to Ensure the Integrity of Public Information Teemu Häkkinen , Laurea University of Applied Sciences, Tikkurila, Finland and Dominic Saari , University of Jyväskylä, Finland EWS-060	Supervised Classification of Cloud Workload Behavior Using Out-of-Band Performance Metrics Maureen Van Devender , Angela Buie , Ryan Benton and Than Le , et al University of South Alabama, USA EWS-094	Incorporating S.P.I.C.Y. DICOM Polyglot Threats into Cyber Warfare Exercises Danny "Danhammer" Hetzel , Hetzel Security, Marshall, USA, Xavier Palmer , Lucas Potter , BiosView Labs, USA and Janine (Nina Alli) Medina , Biohacking Village, USA (MT on Cyber Deception) EWS-131
14:20	A Double-Edged Sword: How Lab Cameras May Enable Some Cyber Deception in Biosecurity Rachid Soro , Independent Researcher, Herndon, USA, Xavier Palmer and Lucas Potter , BiosView Labs, USA and Michaela Barnett , Blacks In Cybersecurity Headquarters, Inc., Virginia, USA EWS-029	Immersive CyberVerse: The State of Immersive learning techniques in Cybersecurity Education in Small Colleges Sayonnha Mandal , Metro State University, St. Paul, USA EWS-037	The Military Tech Complex and Cyberwarfare: Ethical and Anticipated Ethics Issues Richard Wilson , and Noah Donnelly , Towson University, Towson MD, USA EWS-156
14:40	Securing the AI Revolution: A Maturity Framework for Trustworthy and Resilient Software Jami Carroll , Prisdian Security Solutions, Inc., Somerset, USA EWS-093	Lost at Sea: GPS Spoofing Threats to Maritime Shipping Sandali Srivastava , Shaunak Srivastava and Nithya Vemuri , Texas A&M University, College Station, USA EWS-176	
15:00	Break	Break	Break
	Stream A: Defence Chair: Zoom Room 1	Stream C: Gaming, IoT & AI Chair: Richard Wilson Zoom Room 2	
15:20	Graph Neural Networks on Phase Space Graphs for Cybersecurity Parker Cole , Ryan Benton , Ralf Riedel , David Bourrie , Rebecca Clark and Todd McDonald , University of South Alabama, Mobile, USA EWS-099	From Play to Mobilization: A Sociotechnical Pathway from Youth Gaming Communities to Geopolitical Cyber Operations Anvesha Nigam , Independent, Frisco, USA and Shreyas Kumar , Emma Johansson , Texas A&M University, College Station, USA EWS-130	
15:40	An Integrated Framework for Ransomware Mitigation: A NIST-Aligned Defense Model Linking Cyber Insurance and Risk Management Li Huang and Kimberly A. Cornell , University at Albany, USA EWS-036	Preparing Industry for IIoT: Separate Sensor Networks for Industrial Automation Security Ricky Green , Ryan Benton and Michael Black , University of South Alabama, Mobile, USA EWS-149	
16:00	The Forgotten Stub: Exploring Malicious Use of the PE DOS Header Sayonnha Mandal , Metro State University, St. Paul, USA, Kshitiz Aryal and William Mahoney , University of Nebraska at Omaha, USA EWS-032	Detecting DDoS Attacks in IoT Healthcare Eurydice Tracy Makena and Sara Sutton , Grand Valley State University, Allendale, USA EWS-161	
16:20	Building Cyber Defenders of the Future: Curriculum Design for Emerging Roles Toby Meyer , Jael Rivera and Austin Vershav , Software Engineering Institute, Pittsburgh, USA (Non-Academic) EWS-067	AI to AI Autonomous Cyber Warfare: Ethical and Anticipated Ethical Issues Richard Wilson , and Noah Donnelly , Towson University, USA EWS-150	
16:40	Close of Conference Day	Close of Conference Day	Close of Conference Day

	Tuesday 30 June		
	Stream A: Security Issues Chair: Chuck Easttom Zoom Room 1	Stream B: Deepfakes, AI, Hacking and Education Chair: Edmont Pasipamire Zoom Room 2	Virtual Poster Session (5 minute presentations with time for discussion) Chair: Zoom Room 3
09:00	A Physically Unclonable Function Authentication Protocol to Secure IEEE C37.118 Communications Taylah Griffiths , Mohiuddin Ahmed and Chadni Islam , Paul Haskell-Dowland , Edith Cowan University, Joondalup, Australia EWS-105	Deepfake Technology in Social Engineering: Threats, Detection and Defence Strategies Tanaka Makamure and Daniel Ogwo , University of Johannesburg, Johannesburg, South Africa EWS-173	Defending the Cosmos: Honeypot-based Adversary Detetion & Emulation System Arnold Chan , University of South Australia, Sydney, Australia AI Safety Under Uncertainty: Hallucinations and Unpredictable Failures Joon Park , Syracuse University, Syracuse, USA (WIP) EWS-040 Towards a Resilience Framework for Securing ADS-B Surveillance Systems in Air Traffic Management Victoria Mofolo , Regenesys Business School, South Africa (WIP) Securing Open-Source Artificial Pancreas Systems: A Framework for Assessing Cybersecurity Risks in Open-Source Automated Insulin Delivery Systems. James Austin , University of East London, London, UK Cognitive Warfare 8 Fundamental Categories: Ethical and Anticipated Ethical Issues Richard Wilson , Towson University, Towson MD, USA Professional Wrestling, Televangelism, and Political Extremism: Ethical and Anticipated Ethical Issues Richard Wilson , Towson University, Towson MD, USA The Correspondence Theory of Truth, January 6th and Cognitive Warfare: Ethical and Anticipated Ethical Issues Richard Wilson , Towson University, Towson MD, USA Significance of Biological Design-Based Strategies Towards Sustainability and Security in Space Biology Research: A Partial Taxonomy and Exploration Aswati Subramanian , Simpson College, Indianola, USA and Xavier Plamer , Independent researcher, USA EWS-072
09:20	NEXUS-HC: A Framework for Technology Foresight in Strategic Communications Yukai Zeng , Singapore Ministry of Defence Communications Organisation (MCO), Singapore EWS-167	Bayesian Modeling of Uncertainty in Anti-Phishing Training: A Serious Game for Adversarial Email Crafting Dimitrios Lappas , Aristeidis Angelos Zoumpakis , Hellenic Centre for Defence Innovation, Athens, Greece, Diogo Alexandre Silva , Portuguese Air Force Academy, Portugal, and Panagiotis Karampelas , Hellenic Air Force Academy, Greece EWS-033	
09:40	Beyond Obscurity: Developing CubeSat Cybersecurity Joshua Davis , Jill Slay , Adelaide University, Australia and Nalin Arachchilage , RMIT University, Australia (PhD) EWS-074	Cognitive Deception: Cognitive Hacking Phenomenon and Cognitive Security Mikko Luomala and Jyri Naarmala , University of Vaasa, Finland EWS-102	
10:00	A Harmonised-Dashboard for Smart Home Device Security Samiah Alghamdi , Steven Furnell and Steven Bagley , The University of Nottingham, UK EWS-080	Cybersecurity in the Era of Quantum Computing and Advanced AI: Emerging Threats and Future Directions Hisham Alnabulsiyyah and Meteabh Aldawsri , Shaqra University, Riyadh, Kingdom of Saudi Arabia EWS-112	
10:20	<i>Break</i>	<i>Break</i>	<i>Break</i>
10:40	Keynote Address: Adam Joinson, Bath University, UK <i>Mapping the Impact of Future & Emerging Technologies on Cybersecurity</i>		
11:25	Introduction to ECCWS 2027		
11:30	<i>Conference splits into streams</i>		

	Stream A: Trust, Vulnerability and Detection Chair: Zoom Room 1	Stream B: Resilience and Ethics Chair: Richard Wilson Zoom Room 2	Stream C: Competence and Implementation Chair: Zoom Room 3
11:40	A Hybrid, Transparent Trust and Risk Assessment Framework for Cryptocurrency Exchanges Bongani Mawhayi , University of the Western Cape, Cape Town, South Africa, Johnny Botha , Council for Scientific and Industrial Research, South Africa and Louise Leenen , University of the Western Cape, South Africa EWS-092	Enhancing Cybersecurity Resilience in the Real Estate Industry: Mitigating Phishing and BEC Attacks Oludolamu Animole , Independent, Glasgow, UK, Etinosa Imafidon , Flexmore Tech Ltd, Edinburgh, UK, Denzel A. Pryor , Independent Researcher, Philadelphia, Pennsylvania, USA, Lucas Potter and Xavier Palmer , Biosview	Strengthening Analytical Competence in Cyber Intelligence Gazmend Huskaj , Geneva Centre for Security Policy, Department of Computer and Systems Sciences Stockholm University, Geneva, Kista, Switzerland, Sweden, and Stefan Axelsson , Department of Computer and Systems Sciences, Stockholm University, Sweden EWS-049
12:00	Balancing Security and Safety: A Look at Emergency Access Solutions for Implantable Medical Devices (IMDs) James Austin , University of East London, London, UK, Veronica Schmitt , Noroff University, Norway, Janine Medina , Biohacking Village, USA and Xavier-Lewis Palmer et al EWS-108	Decision Resilience in AI-Enabled Cyber-Physical Defence: Securing the Sense-Decide-Act Chain Laura Samso , Synarea Insights, UK	Fact or Fiction? Libraries as Frontline Defenders Against Disinformation Warfare Edmont Pasipamire , The IIE Rosebank College, Cape Town, South Africa (MT AI for Cyber Defence and Securing AI) EWS-165
12:20	A Lightweight Automated SQL Injection Testing Tool with Integrated Discovery and Structured Reporting Ugochukwu Onwudebelu , Alex Ekwueme Federal University Ndufu Alike, Nigeria, Olusanjo Olugbemi Fasola , Ibrahim Ismail , Federal University of Technology, Minna, Nigeria and Nancy Chinyere Woods , University of Ibadan,	Weaponizing Firmware, Cyberwarfare and Battery Management Systems: Ethical and Anticipated Ethical Issues Richard Wilson and Noah Donnelly , Towson University, USA EWS-155	How Cybersecurity Playbooks increase Awareness of Industrial Control System Threats Leigh Armistead , Peregrine Technical Solutions, LLC., Juneau, Alaska, USA (Presentation only) EWS-004
12:40	<i>Short break</i>	<i>Short break</i>	<i>Short break</i>
12:50	Testing ML-KEM Implementations for Side-channel Vulnerability: The Airtight Framework Isaiah Seals , Douglas Hodson and Mark Reith , Air Force Institute of Technology, Dayton, USA EWS-184	A Hybrid Cyber Defense Framework for Indonesia's Military Integration into National Cyber Resilience: A Counter Factual Stress Test Fibriansyah Fatahillah and Timothy Shives , Naval Postgraduate School, Monterey, USA EWS-174	Comparing Maritime Cybersecurity Regimes between North America and Europe Leigh Armistead , Peregrine Technical Solutions, LLC., Juneau, Alaska, USA (Presentation only) EWS-003
13:10	Reviewing Machine Learning Algorithms for Threat Detection in Cybersecurity Aidan Gatenbee , Mark Reith , Anthony Rose , Air Force Institute of Technology, Dayton, USA EWS-182	Information Ethics and Social Context as Drivers of Cybersecurity Resilience in South Africa's Uneven Digital Landscape Elekanyani Mukondeleli , Nokuthaba Siphambili and Lele Molema , CSIR, Pretoria, South Africa EWS-141	Implementation and Analysis of SS7 Signaling Firewall Research Laboratory Ahmet Mithat Demirkol , Aselsan, Ankara, Turkey EWS-057
13:30	Analysis of the Use of Lattice-Based Key-Encapsulation Mechanism in Delay Tolerant Networks: A Survey Fabio dos Santos , Mark Reith and Daniel Koranek , Air Force Institute of Technology, Dayton - OH, USA EWS-187	Forever Days, Silicon Immutability and the Crisis of Unpatchable BootROM Vulnerabilities in Cyberwarfare: Ethical and Anticipated Ethical Issues Richard Wilson and Noah Donnelly , Towson University, USA EWS-154	
13:50	Securing the Decentralized Edge: An integrated Approach to Zero Trust and Endpoint Security Monitoring Victor Kipchirchir Bungei , Sara Sutton , Johnfia Frank and Esther Djan , Grand Valley State University, Allendale, USA EWS-168	Cyber Warfare, Cyberbullying and Psychological Warfare: Ethical and Anticipated Ethical Issues Richard Wilson and Noah Donnelly , Towson University, USA T-IWS-165	
14:10	<i>Close of Conference</i>	<i>Close of Conference</i>	<i>Close of Conference</i>