

<p align="center">20th International Conference on Cyber Warfare and Security ICCSWS 2025 Physical Timetable 28th - 29th March 2025 - William & Mary Law School, 613 S Henry St, Williamsburg, VA 23185, USA This Programme is in local time UTC -4 (Eastern Daylight Time (EDT))</p>	
Thursday 27th March 2025	
18:00	Pre-conference Registration and Welcome Drinks (until 19:00) Address: Strangeways Brewing, 1430 High Street, Williamsburg VA 23185, USA
Friday 28th March 2025	
08:30	Conference Registration and coffee in Main Lobby Zoom Room 1 Opens
09:00	Room 120 Welcome and Opening of the Conference: Dr. Saltuk Karahan
09:15	Keynote Presentation: Jeffrey Reynolds, Political-Military Advisor Enabling a Multi-Domain NATO Alliance through Cyber and Space
10:00	Conference splits into streams
	<p>Room 118 McGlothlin Court Room Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Geoffrey Dobson</p> <p>Room 141 Stream B: Mini Track on Navigating the Nexus: Managing Governance, Risk, Compliance, and Policy in Modern Work Environments Chair: Joe Adams</p>
10:20	<p>A Snapshot of the Biocybersecurity/Cyberbiosecurity Landscape (2017-2024) Saurabh Ranjan, University of Delhi, India, Lucas Potter, Xavier-Lewis Palmer, Old Dominion University, BIOSView Labs, USA</p> <p>Tactics and Techniques of Information Operations: Gaps in US Response to Counter Malign Influence Nicholas Harrell, Purdue University, Lafayette, IN, Alexander Master, Daniel Eerhart, and Nicholas Stark, United States Military Academy, Westpoint, USA</p>
10:40	<p>Implementation of Extended Differential Privacy for Electric Vehicles Using the Novel Filtering Approach Mohsin Ali and Farhan Ali Swinburne University of Technology, Australia,</p> <p>Enhancing Cybersecurity Through a Revised Risk Management Framework Paula Juan and Timothy Shives, Naval Postgraduate School / Department of Defense, USA,</p>
11:00	<p>Heading into the Future: The Dynamic Adaptable IA Training Assessment Tool! Henry Collier, Marshall University, Huntington, USA</p> <p>Cognitive Marginality: A Framework for Targeted Manipulation Justin Lindstrom and Timothy Shives Naval Postgraduate School, USA</p>
11:20	<p>Creating a Cybersecurity Culture Framework in Higher Education Mafika Nkambule, Joey Jansen van Vuuren., Michael Moeti, Tshwane University of Technology and Louise Leenan, University of the Western Cape, South Africa</p> <p>Optimizing Cyber Protection Team (CPT) Operations: An Analysis of Task Synchronization and Process Agility in Defensive Cyber Operations Timothy Shives, Frank Wleklinski, Grayson Logan, and Nicolas Harpey, Naval Postgraduate School / Department of Defense, USA</p>
11:40	<p>The Roles of PA and MISO in Modern Warfare Stephanie Vandegrift, Mustafa Canan, and Timothy Shives, Naval Postgraduate School, Monterey, California, USA</p> <p>Securing U.S. Communications Infrastructure: An Analysis of CSRIC Best Practices Saltuk Karahan, Raima Soule and Victor C. Nwala, Old Dominion University, USA (Presentation Only)</p>
12:00	Lunch in Penny Lobby
	<p>Room 118 McGlothlin Court Room Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Kasey Miller</p> <p>Room 141 Stream B: PhD Colloquium (10 minute presentations with discussion) Chair: Saltuk Karahan</p>
13:00	<p>Vulnerabilities to Crypto Currency Scams and Online Persuasion Strategies Vilma Luoma-aho and Miriam Hautala, University of Jyväskylä, Finland, Johnny Botha, CSIR, South Africa</p> <p>Cybercrime Policing Collaboration in South Africa: Exploring A Stakeholder Approach Motalepule Zulu and Ryno Boshoff, Nelson Mandela University, South Africa</p>
13:20	<p>Comparison of AWS and AZURE in a Prototype for Automated Selected Security Controls Mpho Maimela, Joey Jansen van Vuuren and Michael Moeti, Tshwane University of Technology, South Africa</p> <p>Influence of Public Perceptions on Cybersecurity Policy Framework Formation Johannes Joubert and Mike Wa Nkongolo, University of Pretoria, South Africa</p>
13:40	<p>An Overview of Video Game Biometrics Collection and Considerations for Cyberbiosecurity Lucas Potter, Christen Westberry and Xavier-Lewis Palmer BiosView Labs, Oswego, KS, USA</p> <p>Computational Forensics: The Essential Role of Logs in APT and Advanced Cyberattack Response Raymond Andre Hagen, Norwegian University of Science and Technology, Norway</p>
14:00	<p>Security Evaluation of Password Managers: Comparative Analysis and Penetration Testing of Existing Solutions Petr Gallus, Dominik Staněk and Ivo Klaban, University of Defence, Czech Republic</p> <p>Simulation of Human Organizations with Computational Human Factors Against Phishing Campaigns Jeongkeun Shin, Richard Carley and Kathleen Carley, Carnegie Mellon University, USA</p>
14:20	<p>Context as a Factor: The Aspect of Physical Layer Security in Multi-Factor Authentication Schemes Christoph Lipps, German Research Center for Artificial Intelligence, Kaiserslautern, Germany (Presentation Only)</p> <p>Identifying Cybersecurity Elements for a Cybersecurity Framework in Higher Education Mafika Nkambule, Joey van Vuuren, Tshwane University of Technology and Louise Leenen, University of the Western Cape, South Africa</p>
14:40	<p>Humanizing Cyber War: A Geneva Conventions-Based Framework for Cyber Warfare Shreyas Kumar, Maitreya Niranjan Texas A&M University, College Station, Gourav Nagar, Independent Researcher, USA, Komal Tripathi and Sateesh Kumar Peddoju, Indian Institute of Technology, Roorkee, India</p> <p>Exploring the Possibilities of Splunk Enterprise Security in Advanced Cyber Threat Detection Palvi Shelke and Tapio Frantti, University of Jyväskylä, Finland</p>
15:00	Refreshments
	<p>Room 118 McGlothlin Court Room Stream A: Cybersecurity in Healthcare and Monetization Chair: Christoph Lipps</p>
15:20	<p>AI-Driven Cybersecurity Strategies for ISPs: Balancing Threat Mitigation and Monetization Nakul Singh, Independent Researcher, San Francisco, USA and Shreyas Kumar, Texas A&M University, USA</p>
15:40	<p>Safeguarding Smart Inhaler Devices and Patient Privacy in Respiratory Health Monitoring Asaju Babajide, Almustapha Wakili, Woosub Jung, Towson University, USA, Michaela Barnett, Blacks In Cybersecurity Headquarters, Inc. USA, Lucas Potter, and Xavier-</p>
16:00	<p>A Governance-Centric Framework for Strengthening Healthcare Cybersecurity: A Systems Perspective Sujatha Alla, Sai Gireesh Komaragiri, Teresa Duvall, Satluk Karahan, Nagesh Bheesetty, Old Dominion University, USA and Vijay Kumar Chattu, University of Toronto, Canada</p>
16:20	Close of conference day
18:30	Conference Dinner at Captain Georges Seafood Restaurant, 5363 Richmond Rd, Williamsburg, VA 23188.

	Saturday 29th March 2025	
09:00	Opening Messages	
09:05	Keynote Presentation: <i>Francis A. "Skip" Hiser, III, Former CIO U.S. Fleet Forces Command and Faculty (ODU), USA</i> <i>Challenges Today and Tomorrow: The Conundrum of Rapidly Evolving Threats, and Speed to Deploy/Execute Evolving Solutions in Cyber Security and Cyber Warfare</i>	
09:50	Introduction to ICCWS 2026 Kasey Miller, University of North Carolina Wilmington, USA	
10:00	Refreshments and Poster presentations in Room 130	
	<i>Conference splits into streams</i>	
	Room 118 McGlothlin Court Room Stream A: Artificial Intelligence (AI) and interactive learning Chair: Vilma Luoma-aho	Room 141 Stream B: Ethical Challenges Chair: Alexander Master
10:40	Human Factors Engineering in Explainable AI: Putting People First Calvin Nobles , University of Maryland Global Campus, Adelphi, USA	Ethical Challenges in Cyber Warfare: A Modular Evaluation of Offensive Cyber Justification Jacob Shaha , Rebecca Marigliano and Kathleen Carley , Societal Computing, Carnegie Mellon University, USA
11:00	Security Model Against Private Data Sharing by Streaming (OTT) Platforms Using Generative Adversarial Networks Michael Mosti , Makhulu Relebogile Langa , Joey Jansen van Vuuren , and Anna-Marie Jansen van Vuuren , Tshwane University of Technology, South Africa	Extremism and Anger from Ruby Ridge to Trumpism: An Ethical and Anticipatory Ethical Analysis Richard Wilson , Towson University, Towson Md, United States (Presentation Only)
11:20	Did your Cyber Team Win? Geoffrey Dobson and Kathleen Carley , Carnegie Mellon University, USA	Nietzsche, Heidegger and the Origins of the Far Right: Ethical and Anticipated Ethical Issues Richard Wilson , Towson University, USA (Presentation Only)
11:40	Perspectives on AI Security in Defense-critical Contexts Clemens Kerschbaum , Argus-AI, Hornstein, Austria and Raphael Dachs, Argus-AI GmbH, Austria (Presentation only)	Credibility and Response to Coercive Cyber Threat in Iterated Crisis JD Work , National Defense University & Columbia University, Ft. McNair, Washington DC, United States
12:00	<i>Lunch in Penny Lobby</i>	
	Room 118 McGlothlin Court Room Stream A: Cybercrime and Mental Health Chair: Richard Wilson	Room 141 Stream B: Military Issues Chair: Leigh Armistead
13:00	Mental Health Impacts of Cybercrime Darrell Norman Burrell , Marymount University, Arlington, VA, USA	How Does Military Professionalization Affect Cyber Capacity Development? Mustafa Kirisci , Lebanon Valley College, Annville, PA and Isa Haskologlu , American University, USA
13:20	Exploring Mitigative Strategies to Prevent Burnout in Cybersecurity Calvin Nobles , University of Maryland Global Campus, Adelphi, USA	Information Maneuver in the United States Marine Corp William Rose , Edward Fiorentino , Mustafa Canan , and Tim Shives , Naval Postgraduate School, USA
13:40	Using the Instrumentality of Law and Policy in Balancing Privacy Issues, Security and Civil Liberties in a Digital Era Ngozi Uzoka , Nneka Umejiaku , Nnamdi Azikiwe University Awka Anambra state, Nigeria and Eze Onyekachukwu Ijeoma Onyekachukwu , Faculty of Law, Nnamdi Azikiwe University Awka, Anambra State Nigeria	From Elements to Effects: The Strategic Imperative to understand "National Cyber Power" Carolyn Erickson and Matt Rasmussen US Army War College, USA
14:00	Summary of the Conference Awards to the winner of the Best PhD Paper and Best Poster	
14:15	<i>Close of Conference</i>	
	<i>Close of Conference</i>	
	Poster Presentations	
	Posters will be presented on Saturday morning during the coffee break in Room 130	
	RAGe Against the Machine for Proactive Cybersecurity Posture Brennan Lodge , New York University, New York City, USA (Poster only)	A Snapshot of the Biocybersecurity/Cyberbiosecurity Landscape (2017-2024) Saurabh Ranjan , Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, Lucas Potter and Xavier-Lewis Palmer School of Cybersecurity, Old Dominion University, USA
	Securing a Smart Port: Cybersecurity Challenges and Mitigation Strategies Kasey Miller , University of North Carolina, Wilmington, USA (Poster Only)	Tik Tok and Information Warfare: Ethical and Anticipated Ethical Issues Richard Wilson , Towson University, Towson Maryland, USA (Poster Only)
	Insurrection, Sedition and Treason: An Ethical and Anticipatory Ethical Analysis Richard Wilson , Towson University, Towson Md, USA (Poster Only)	

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10:00	Conference splits into streams
	Zoom Room 1 Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Leigh Armistead
	Zoom Room 2 Stream B: Mini Track on Securing Artificial Intelligence Chair: Arun Mamgai
10:20	FBI Most Wanted Girlfriend: The Futurist Model of Fugitive Trans Hacker and Merchandiser Maia Arson Crimew's Meaning Making Tim Pappa, Capitol Technology University, Laurel, USA
10:40	Business Continuity Against Cyber Interruptions Harri Ruoslahti and Eveliina Hytönen, Laurea University of Applied Sciences, Espoo, Finland
11:00	Investigating The Implications of Cyberattacks Against Precision Agricultural Equipment Mark Freyhof, George Grispos, Santosh Pitla and William Mahoney, University of Nebraska at Omaha, USA
11:20	Cyber Protection Strategies: Balancing Insurance and Security Li Huang and Kimberly A. Cornell, University at Albany, USA
11:40	Analysis of the Issues Related to the Problem of Enhanced Data Security in Space Dina Aldanazarova, KBTU, Almaty, Kazakhstan and Serik Ospanov, Kaskosmos, Kazakhstan
12:00	Cybersecurity Awareness Through Interactive Learning Using a CyberVigilance Game Mike Wa Nkongolo, Thami Sithole and Jahrad Sewnath, University of Pretoria, South Africa
12:20	Lunch
	Zoom Room 1 Stream A: PhD papers (10 minute presentations with discussion) Chair: Xavier Palmer
	Zoom Room 2 Stream B: Food, Influencers, Awareness and CTI Chair: Chuck Eastom
13:00	Integrating Interdisciplinary Theories and Metrics for Assessing Cyber Resilience in SMEs amid Emerging Threats Alona Bahmanova and Natalja Lace, Riga Technical University, Latvia
13:20	Applying LEAN-principles on Cybersecurity Online Course: A Three -Year Longitude Study Pasi Kämppi, Paresch Rathod and Jyri Rajamäki, Laurea University of Applied Sciences, Finland
13:40	Forensic Insights into SenseCAP: A Comprehensive Examination of Technical and LoRa Connectivity Dimensions Nurettin Senol and Amar Rasheed, Sam Houston State University, USA
14:00	Small Actors, Big Disruptions: The Chaos of Shadow Strikes in Asymmetric Cyber Warfare Marion Stephens, American Public University, USA
14:20	Mobile Phone Firmware and Hardware Hacking Detection System Michal Nhyk Ahimbisibwe and Noluntu Mpekoa, University of Johannesburg, South Africa
14:40	Break
	Zoom Room 1 Stream A: Military Context Chair: Chaitanya Rahalkar
	Zoom Room 2 Stream B: Wearables, Social Media and Biodesign Chair: Evan Kellner
15:00	Risks and Control Measures for Building Trustworthy Autonomous Weapon Systems Clara Maathuis, Open University, Heerlen, Netherlands and Kasper Cools, Belgian Royal Military Academy, Belgium
15:20	Hybrid AI Model for Proportionality Assessment in Military Operations Clara Maathuis and Eric Scharringa, Open University, Netherlands
15:40	Fuzzy AHP Model for Courses of Action Comparison in Military Operations Clara Maathuis and Leendert Ambtman, Open University, Netherlands
16:00	Information Maneuver in the United States Marine Corps William Rose, Fiorentino Edward, Mustafa Canan, and Tim Shives, Naval Postgraduate School, USA
16:20	Close of Conference Day

	Saturday 29th March 2025		
08:45	Zoom Room 1 opens		
09:05	Keynote Presentation: Francis A. "Skip" Hiser, III <i>Challenges Today and Tomorrow: The Conundrum of Rapidly Evolving Threats, and Speed to Deploy/Execute Evolving Solutions in Cyber Security and Cyber Warfare.</i>		
09:50	Introduction to ICCWS 2026 Kasey Miller, University of North Carolina Wilmington, USA		
10:00	<i>Conference splits into streams</i>		
	Zoom Room 1 Stream A: Reliability, Vulnerability, Risk and more Chair: Nakul Singh	Zoom Room 2 Stream B: Security Issues Chair: Tim Grant	Zoom Room 3 Stream B: Posters Chair: Clara Maathuis
10:10	A Machine Learning-Based Intrusion Detection Algorithm for Securing Bioinformatics Pipelines Jude Osamor et al Cyblack, UK	Forensic Examinations of Alexa for Smart Home Privacy and Cybercrime Investigation Bashaer Aljneibi , Richard Ikuesan , Farkhund Iqbal , Mahra Alameri and Nora Alhashemi , Zayed University, United Arab Emirates	AI Assisted Social Engineering Vulnerability Scanner Chaitanya Rahalkar , Anushka Virgaonkar and Chaitanya Rahalkar , Georgia Institute of Technology, USA Visualizing Soviet Reflexive Control Models to Collect Unique Attacker Behaviors Tim Pappa , Walmart Global Tech, Reston, United States
10:30	Cybersecurity Concerns on Mobile Phones: A Systematic Review Noluntu Mpekoa , University of Johannesburg, South Africa	Extracting Cyber Threat Intelligence from Port Scans: A Taxonomy-based Approach Jan Geisler , Robert Koch , Alexander Nußbaum and Gabi Dreo Rodosek , Universität der Bundeswehr, Germany	AI Risks in Military Space Operations Clara Maathuis , Open University, Heerlen, Netherlands and Kasper Cools , Belgian Royal Military Academy, Belgium
10:50	Quantifying Cyber Security Risk through Interest Rate Calculation in Debt Management Christo Coetzer , and Louise Leenen , University of the Western Cape, South Africa	Quantum Resistant Cryptography and Cyber Warfare Chuck Easttom , Vanderbilt and Georgetown University, Plano, USA	The Critical Role of Cybersecurity Education in Health Tourism Jyri Rajamäki , Paulinus Ofem, Annika Kallio and Miia Vakkuri , Laurea University of Applied Sciences, Espoo, Finland DYNAMO and the EU AI Act: Balancing Innovation and Regulation Ilkka Tikanmäki , Peik Feiring, Maria Sissonen and André Winberg , Laurea University of Applied Sciences, Finland (WIP)
11:10	System Reliability Analysis: Impact of Structural Anomalies in State Voter Registration Systems Andrew Paquette , Independent Researcher, Salt Point, USA	Deepfake Technology Immerring Threats and Security Implications Chuck Easttom , Vanderbilt and Georgetown University, Plano, USA	Cultivating Cybersecurity: Designing a Cybersecurity Curriculum for the Food and Agriculture Industry George Grispos , William Mahoney and Larry Loucks , Ponca Economic Development Corporation, USA (WIP)
11:30	SPARK: Exposing Vulnerabilities in Collaborative Display Systems and Session-Key Exposure Thomas Heverin et al , The Baldwin School, Bryn Mawr, USA	Cognitive Warfare and Cybersecurity: Strategic Implications for Global Security Loukmane Meghraoui , The National School of Political Sciences, Algeria, Zakariya Belkhamza , Ahmed Bin Mohammed Military College, Doha, Qatar	An Unorthodox Cyber Deception Approach to Cybersecurity Awareness Month Tim Pappa , Walmart Global Tech, Reston, United States (Poster Only)
11:50	Obfuscation, Stealth, and Non-Attribution in Automated Red Team Tools Alan Shaffer , Dwain Hembree and Gurminder Singh , Naval Postgraduate School, California USA	Ethical Implications of WannaCry: A Cybersecurity Dilemma Jude Osamor et al , University of West of England, UK	Cyber Security Risks in Wearable Devices Stacey Vargas and Durig Lewis , Virginia Military Institute, United States (WIP) Ethnographical Influence on Attack Methods of Cyber-Criminals: An Exploratory Study Kelsey Loughan , Marymount University, Arlington, VA, USA (Poster Only)
12:10		The Evolution of Phishing and Future Directions, A Review Jude Osamor , Glasgow Caledonian University, Scotland, UK and Celestine Iwendi , University of Bolton, UK	
12:20	<i>Close of Virtual Conference</i>	<i>Close of Virtual Conference</i>	<i>Close of Virtual Conference</i>