18th International Conference on Cyber Warfare and Security - ICCWS 2023
9 - 10 March 2023
Towson University, Baltimore County, Maryland, USA

EST		
	Thursday 9 March 2023	
08:30	**Conference Registration (Towson University Cyber Center, 10 West, West Burke Avenue, Towson, 21286)** **Zoom Room 1 opens for virtual participants**	
09:00	**Room 165 and Zoom Room 1** **Welcome and Opening of the Conference**	
09:15	**Keynote Presentation: Justin Fanelli, Technical Director, Dept of Navy PEO Digital and Georgetown University** ***"Can Zero Trust Restore Our Ailing Trust?"***	
10:00	***Conference splits into streams***	
	Room 165 **Stream A: Resilience** **Chair: Dana Weinberg**	**Room 162** **Stream B: Mini Track on Cyber Operations in the Global Information Environment** **Chair: Edwin Covert**
10:20	Towards a Scientific Definition of Cyber Resilience Sidney C. **Smith**, DEVCOM Army Research Laboratory, Adelphi, MD, USA (P)	Predictors of Human Efficiency in Radar Detection Tasks Elizabeth **Fox**, Christopher **Stevens**, Air Force Research Laboratory, Wright-Patterson Air Force Base, Arielle **Stephenson** and Gregory **Bowers**, Ball Aerospace, USA (P)
10:40	Basic Elements of Cyber Security for a Smart Terminal Process Jouni **Pöyhönen**, Jussi **Simola** and Martti **Lehto**, University of Jyväskylä, Finland (P)	Blockchain Forensics: A Modern Approach to Investigating CyberCrime in the Age of Decentralisation Saminu **Salisu**, Barry **Pene**, Bilic, London, UK and Filipov **Velitchko**, TU Wien, Vienna (P)
11:00	Cyber Security Training in Finnish Basic and General Upper Secondary Education Martti **Lehto** and Pekka **Neittaanmäki**, University of Jyväskylä, Finland (P)	The Great Replacement, White Genocide and The War on Multiculturalism: An Anticipatory Ethical Analysis Richard **Wilson**, Towson University, Baltimore, USA (Presentation only) (P)
11:20	Use of Intrusion Detection Systems in Vehicular Controller Area Networks to Preclude Remote Attacks Anthony J **Monge** and Todd **Andel**, University of South Alabama, Mobile, USA	Zero Trust is not Enough: Mitigating Data Repository Breaches John .S. **Hurley**, ODNI, Bethesda, USA (P)
11:40	Secure Cloud Migration Strategy (SCMS): A Safe Journey to the Cloud Dalal **Alharthi**, University of Arizona, Tucson, USA (P)	Spies, Saboteurs & Scoundrels: How Russia, China & Nefarious Actors Are Hacking Industrial Controls Systems & Other xIoT Devices Brian **Contos**, Phosphorus Cybersecurity, Dublin, USA (Presentation only) (P)
12:00	***Break - Lunch***	***Break - Lunch***
	Room 165 **Stream A: Mini Track on Interdisciplinary Research** **Chair: Char Sample**	**Room 162** **Stream C: PhD and Masters Colloquium** **Chair: John Hurley**
13:00	Cyber Warfare 2023 Next Level $#@! You Need to Know Michele **Boland**, Check Point Software Technologies, Fort Worth, USA (Presentation only) (P)	Identifying Commonalities of Cyberattacks Against the Maritime Transportation System Rebecca **Rohan**, Marymount University, Arlington, Virginia, USA (PhD) Using Military Cyber Operations as a Deterrent Maria **Keinonen**, Finnish Defence Forces, Helsinki, Finland (PhD) Categorizing Cyber Activity Through an Information-Psychological and Information-Technological Perspective, Case Ukraine Harry **Kantola**, Finnish National Defence University, Helsinki, FInland (PhD) Locality-based Electromagnetic Leakage Assessment Using CNN Ian **Heffron** and James **Dean**, Air Force Institute of Technology, Wright-Patterson Air Force Base, USA (Masters) Just Warfare: Is a Nuclear Attack an Appropriate Response to a Cyber Attack? Alexia **Fitz** and Richard **Wilson**, Towson University, USA (Masters)
13:20	Implications of Cyberbiosecurity in Advanced Agriculture Simone **Stephen**, Keitavius **Alexander**, Old Dominion University, Norfolk, Lucas **Potter** and Xavier-Lewis **Palmer**, BiosView, Oswego, USA (P)	
13:40	Cyber Salami: A New Theory of Adversary Strategy Gentry **Lane**, ANOVA Intelligence and/or Potomac Institute for Policy Studies, Washington, DC, USA (Presentation only) (P)	
14:00	Stories, Narratives and Scripts in Information Warfare and Domestic Terrorism: An Anticipatory Ethical Analysis Richard **Wilson**, Towson University, Baltimore, United States (Presentation only) (P)	
14:20	***Break***	***Break***
	Room 165 **Stream A: Cyber Issues** **Chair: Siphesihle Sithungu**	**Room 162** **Stream B: Mini Track on Cyber Operations in the Global Information Environment** **Chair: Christoph Lipps**
14:50	Scaling Security: What Shifting Left Was Supposed To Mean Dwayne **McDaniel**, GitGuardian, Chicago, USA (Presentation only) (P)	Nuclear Weapons, Cyber Warfare, and Cyber Security Ethical and Anticipated Ethical Issues Richard **Wilson** and Alexia **Fitz**, Towson University, Baltimore, USA (P)
15:10	Review of End-to-End Encryption for Social Media Vijay **Bhuse**, Grand Valley State University, Allendale, MI, USA (P)	Re-instilling Operational Rigor in the Cyber Domain Richard **Losier**, Rainmaker Venture Group LLC, Pasadena, USA (Presentation only) (P)
15:30	Reform the Police, Information warfare and the Future of Law Enforcement: An Ethical and Anticipatory Ethical Analysis Michael **Shifflett**, U S Homeland Security, Towson and Richard **Wilson**, Towson University, Baltimore, USA (Presentation only) (P)	Cyber-Physical Attack Using High Power RF in Havana, Cuba Allyffazzkkamn **Argudo** and Ghislaine Nasibu **Mwana**, Marymount University, Alexandria, USA (P)
15:50	Case Study: Conducting a Risk Assessment for an Electrical Utility Edwin **Covert**, Colorado State University Global, Aurora, Colorado, USA (P)	Cyber Workforce is a Team Challenge Scott **Tousley**, IT Cadre, USA (Non Academic- Presentation Only)
16:10	***Close of Conference Day***	***Close of Conference Day***
19:00	**Conference Dinner at 7 West Bistro Grille (7 W Chesapeake Ave, Towson, MD 21204)**	

EST	Friday 10 March 2023	
08:30	Zoom Room opens for virtual participants	
09:00	Room 1 65 & Zoom Room 1 **Opening Messages**	
09:05	**Keynote Presentation: Dr. George R. Lucas, Stockdale Center at the U.S. Naval Academy.** ***Military Ethics & Algorithmic Warfare: from the Battlefield to the Cyber Domain***	
09:50	**Introduction to ICCWS 2024**	
10:00	*Poster Presentations*	
10:30	*Conference splits into streams*	
	Room 165 **Stream A: Mini Track on The Social Foundations of Information Warfare** Chair: Jason C. Brown	Room 162 **Stream B:** Chair: Leigh Armistead
10:40	Anti-American Stance in Turkey: A Twitter Case Study Hamdi **Kavak**, Gowri **Prathap**, George Mason University, Alex **Korb**, Old Dominion University and Luke **Palmieri**, George Mason University, USA (P)	Cybersecurity in Digital Transformation: Analysis of Past Research and Future Directions Belkhamza **Zakariya**, Ahmed Bin Mohammed Military College, Doha, Qatar (P)
11:00	Russian Influence Operations during the Invasion of Ukraine Joseph **Littell** and Nicolas **Starck**, Army Cyber Institute, West Point NY, United States (P)	The Occult Roots of Q Anon: Ethical and Anticipated Ethical Issues Richard **Wilson**, Towson University, Baltimore and Michael **Shifflett**, U S Homeland Security, USA (Presentation only) (P)
11:20	Social-Engineering, Bio-economies and Nation-State Ontological Security: A Commentary Brandon **Griffin**, Keitavius **Alexander** CySecSol, Lucas **Potter** and Xavier-Lewis **Palmer**, BiosView, USA (P)	An Analysis of Crypto Scams during the Covid-19 Pandemic: 2020-2022 Johnny **Botha**, Danielle **Botha**, CSIR, South Africa and Louise **Leenen**, University of Western Cape, South Africa (P)
11:40	How the Russian Influence Operation on Twitter Weaponized Military Narratives Dana **Weinberg**, Queens College-CUNY, Jessica **Dawson**, Military Academy at West Point and April **Edwards**, US Naval Academy, USA (P)	Managing Large-Scale Heterogeneous Deployments for Cybersecurity John S. **Hurley**, ODNI, Bethesda, USA (P)
12:00	*Break - Lunch in ETEC Lobby*	*Break - Lunch in ETEC Lobby*
	Room 165 **Stream C: Privacy and Healthcare** Chairs: Elizabeth Fox	Room 162 **Stream A: Threats** Chair: Rich Losier
13:00	Developing Privacy Incident Responses to Combat Information Warfare Sean **McElroy** and Lisa **McKee**, Dakota State University, USA (P)	Cyber Threat Analysis in Smart Terminal Systems Jussi **Simola**, Jouni **Pöyhönen** and Martti **Lehto**, University of Jyväskylä, Jyväskylä, Finland (P)
13:20	A Quantitative Risk Assessment Framework for the Cybersecurity of Networked Medical Devices Maureen S. **Van Devender** and Jeffrey Todd **McDonald**, University of South Alabama, Mobile, AL USA (P)	Security Doesn't Need To Be Fun: Understanding OWASP Dwayne **McDaniel**, GitGuardian, Chicago, USA (Presentation only) (P)
13:40	QAnon, Social Media Warfare, and Conspiracy Theories: An Ethical and Anticipatory Ethical Analysis Michael **Shifflett**, U S Homeland Security and Richard **Wilson**, Towson University, Baltimore, USA (Presentation only) (P)	The Impact of Edge Computing on the Industrial Internet of Things Nkata **Sekonya** and Siphesihle **Sithungu**, University of Johannesburg, South Africa (P)
14:00	Room 165 & Zoom Room 1 **Summary of the Conference, Awards to the winner of the Best PhD Paper and Best Poster**	
14:30	*Close of Conference*	*Close of Conference*
	Poster Presentations	
	Physical Posters Friday 10th March **10:00-10:30** *poster presenters to stand with their posters and present the work*	**Virtual Posters** Friday 10th March **10:00-10:40** **Zoom Room 1** *5 minute presentations with time for questions and discussion*
	Using Deep Reinforcement Learning for Assessing the Consequences of Cyber Mitigation Techniques on Industrial Control Systems Terry R. **Merz** and Romarie Morales **Rosado,** U-Albany/CEHC, Albany, New York, USA (WIP) (P)	Cyber Ranges: A Look at the Northern Hemisphere Kathrin **Moog**, Andrew C **Dwyer**, Jantje **Silomon**, Mischa **Hansel** Institute for Peace Research and Security Policy at the University of Hamburg, Germany, Information Security Group, Royal Holloway, University of London, Egham, UK (invited
	Healthcare Cybersecurity Hygiene in the Age of Electronic Medical Records Azza **AlGhamdi**, Marymount University, Fairfax Station, United States (Poster Only) (P)	Combating Social Media Manipulation through Artificial Intelligence and Game-based Solutions' Clara **Maathuis**, Open University, Heerlen, the Netherlands and Sabarathinam **Chockalingam**, Institute for Energy Technology, Norway (invited Poster) (V)
	Cybersecurity Governance of Operational Technology in Sector Connected Smart Energy Neworks CSG Tapio **Frantti**, Reijo Savola and Jussi **Simola**, University of Jyväskylä, Finland (invited Poster) (P)	A Cognitive Model of a Radar Detection Task Alexander R. **Hough**, Christopher **Stevens** and Elizabeth **Fox** Air Force Research Laboratory, Wright-Patterson Air Force Base, USA (invited Poster - V)
	Towards a Medical Digital Twin: Modern Biometrics and their Relevance for Sensor Fusion Christoph **Lipps**, Jan **Herbst**, Lea **Bergkemper**, Jan **Petershans**, Matthias **Rüb** and Hans Dieter **Schotten**, German Research Center for Artificial Intelligence, Germany (invited Poster) (V)	

VIRTUAL TIMETABLE

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09:00	14:00	Room 165 and Zoom Room 1 Welcome and Opening of the Conference		
09:15	14:15	Keynote Presentation: Justin Fanelli, Technical Director, Dept of Navy PEO Digital and Georgetown University *"Can Zero Trust Restore Our Ailing Trust?"*		
10:00	15:00	*Conference splits into streams*		
		Zoom Room 1 **Stream C: Training** Chair: Stephen Treacy	Zoom Room 2 **Stream D: Cyber Issues** Chair: Virginia Greiman	
10:20	15:20	Improvements on Hiding x86-64 Instructions by Interleaving William **Mahoney**, George **Grispos** and Sayonnha **Mandal**, University of Nebraska at Omaha, J. Todd **McDonald**, University of South Alabama, USA (V)	Social Media Manipulation Deep Learning based Disinformation Detection Clara **Maathuis** and Rik **Godschalk**, Open University, Heerlen, The Netherlands (V)	
10:40	15:40	Towards the Usefulness of Learning Factories in the Cybersecurity Domain Namosha **Veerasamy**, Thuli **Mkhwanazi** and Zubeida **Dawood**, CSIR, Pretoria, South Africa (V)	Modelling the Influential Factors Embedded in the Proportionality Assessment in Military Operations Clara **Maathuis**, Open University of the Netherlands, Heerlen, The Netherlands and Sabarathinam **Chockalingam**, Institute for Energy Technology, Halden,	
11:00	15:00	Lesson Plan: An Interdisciplinary Approach to Teaching Cyber Warfare Concepts Donna **Schaeffer**, Marymount University, New Hope and Patrick **Olson**, National University, USA (V)	Gaps in Asset Management Systems to Integrate Railway Companies' Resilience Jyri **Rajamäki**, Jari **Savolainen**, Rauno **Pirinen**, Laurea University of Applied Sciences, Espoo, Finland and Eduardo Villamor **Medina**, ETRA, Valencia, Spain	
11:20	15:20	Social Media Manipulation Awareness through Deep Learning based Disinformation Generation Clara **Maathuis**, Open University of the Netherlands, Heerlen, and Iddo **Kerkhof**, NLP	Nuclear Cyber Attacks: A Study of Sabotage and Regulation of Critical Infrastructure Virginia **Greiman**, Boston University, MA, USA (V)	
11:40	15:40	On the Use and Strategic Implications of Cyber Ranges in Military Contexts: A Dual Typology Andrew **Dwyer**, Royal Holloway, University of London, UK, Mischa **Hansel**, Kathrin **Moog**, Jantje **Silomon**, Institute for Peace Research and Security Policy at the University of Hamburg (IFSH), Hamburg, Germany (V)	Naïve Bayes Supervised Learning based Physical Layer Authentication: Anti-Spoofing techniques for Industrial Radio Systems Andreas **Weinand**, Michael **Karrenbauer**, University of Kaiserslautern, Germany and Christoph **Lipps** and Hans D. **Schotten**, German Research Center for Artificial Intelligence, Germany (V)	
12:00	17:00	*Break*	*Break*	
		Zoom Room 1 **Stream C: PhD and Masters Colloquium** Chairs: Clara Maathuis	Zoom Room 2 **Stream D: Testing, Evaluation and Resilience** Chair: Tabisa Ncubukezi	Zoom Room 3 **Stream E: Mini Track on Interdisciplinary Research in Cybersecurity** Chair: Donna Schaeffer
13:00	18:00	Evaluating a Non-platform-specific OCR/NLP system to detect Online Grooming Jake **Street** and Funminiyi **Olajide**, Nottingham Trent University, UK (PhD) A Unified Forensics Analysis Approach to Digital Investigation Ali Alshumrani, Nathan Clark and Bogdan Ghita, University of Plymouth, UK (PhD) Demonstrating Redundancy Advantages of a Three-Channel Communication Protocol Scott **Culbreth** and Scott **Graham**, Air Force Institute of Technology, USA (Masters) DACA: Automated Attack Scenarios and Dataset Generation Risto **Vaarandi** and Frank **Korving**, Tallinn University of Technology, Estonia (Masters) Offensive Cyberspace Operations for Cyber Security Gazmend **Huskaj**, Geneva Centre for Security Policy, Switzerland (PhD) Towards a Critical Review of Cybersecurity Risks in Anti-Poaching Systems Christelle **Steyn** and Dewald **Blaauw**, Stellenbosch University, South Africa (Masters) A Review and Testing of Fault Tolerance Levels of Anti-Poaching Cybersecurity System Isabelle **Heyl**, Julia **Stone**, Takudzwa Vincent **Banda**, Vian **Smit** and Dewald **Blaauw**, Stellenbosch University, South Africa (Masters)	Managing Variable Cyber Environments with Organizational Foresight and Resilience Thinking Eveliina **Hytönen**, Jyri **Rajamäki** and Harri **Ruoslahti**, Laurea University of Applied Sciences, Espoo, Finland (V)	Biocybersecurity and Deterrence: Hypothetical Rwandan Considerations Issah **Abubakari Samori**, minoHealth AI Labs, Accra, Ghana Gbadebo **Odularu**, Id Dominion University, Norfolk, USA, Lucas **Potter** and Xavier-Lewis **Palmer**, BiosView, Oswego, USA (V)
13:20	18:20		Search and CompAre Reverse (SCAR): A Bioinformatics–Inspired Methodology for Detecting File Remnants in Digital Forensics George **Grispos**, William **Mahoney** and Sayonnha **Mandal**, School of Interdisciplinary Informatics, University of Nebraska-Omaha, USA (V)	An Automated Post-Exploitation Model for Cyber Red Teaming Ryan **Benito**, Alan **Shaffer** and Gurminder **Singh** Naval Postgraduate School, Monterey, California, USA (V)
13:40	18:40		Securing Commercial Satellites for Military Operations: A Cybersecurity Supply Chain Framework Courtney **Fleming**, Mark **Reith** and Wayne **Henry**, Air Force Institute of Technology, Wright-Patterson AFB, USA (V)	Social Robots Privacy Enhancement Using Colored Petri Net (CPN) for Behavior Modeling: A Case Study of Asus Zenbo Robot Benjamin **Yankson**, University at Albany, USA, AlMaeeni **Fadya** and Farkhund **Iqbal**, Zayed University, United Arab Emirates (V)
14:00	19:00		Development and Analysis of a Reconnaissance-Technique Knowledge Graph Elsa **Deitz**, Eve **Cohen**, Jordana **Wilkes** The Baldwin School, Bryn Mawr and Thomas **Heverin**, Girls Learn Cyber, Inc., Philadelphia, USA (V)	Robots Security Assessment and Analysis Using Open-Source Tools Benjamin **Yankson**, Tyler **Loucks**, Andrea **Sampson** and Chelsea **Lojano**, University at Albany, USA (V)
14:20	19:20		Evaluation of Quantum Key Distribution for Secure Satellite-integrated IoT Networks Andrew **Edwards**, Ronald **Mulinde**, Yee Wei **Law** and Jill **Slay**, University of South Australia, Adelaide, Australia (V)	Detecting and Tracking Hypersonic Glide Vehicles: A Cybersecurity-Engineering Analysis of Academic Literature Yee Wei **Law**, John Joshua Gotiza **Gliponeo**, Dilpreet **Singh**, John **McGuire**, Jiajun **Liang**, Sook-Ying **Ho** and Jill **Slay**, University of South Australia, Mawson Lakes, Australia (V)
		Close of Virtual Conference Day	*Close of Virtual Conference Day*	*Close of Virtual Conference Day*

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10:00	15:00	*Poster Presentations*	
10:30	15:30	*Conference splits into streams*	
		Zoom Room 1 **Stream C: Threats** **Chair: Alan Shaffer** VIRTUAL	Zoom Room 2 **Stream C: Cyber Effectiveness** **Chair: Bruce Watson** VIRTUAL
10:40	15:40	Fingerprinting Network Sessions for the Discovery of Cyber Threats Christiaan **Klopper** and Jan **Eloff,** University of Pretoria, South Africa (V)	Methods, Tools and Techniques for Effective Cyber Exercises David **Tileston**, Carnegie Mellon University, Pittsburgh, USA (Presentation only) (V)
11:00	16:00	Organizational Cybersecurity Post The Pandemic: An Exploration of Remote Working Risks and Mitigation Strategies Stephen **Treacy**, Anoop **Sabu**, Thomas **Bond**, Joseph **O'Sullivan**, Jack **Sullivan**, Peter **Sylvester**, Cork University Business School, Ireland (V)	S-400s, Disinformation and Anti-American Sentiment in Turkey Alex **Korb**, Saltuk **Karahan**, Old Dominion University, Gowri **Prathap**, Ekrem **Kaya**, Luke **Palmieri**, Hamdi **Kavak**, George Mason University, USA (V)
11:20	16:20	Digital Insanity: Exploring the Flexibility of NIST Digital Identity Assurance Levels Kenneth **Myers**, Marymount University, Arlington, Virginia, USA (V)	Risk Likelihood of Planned and Unplanned Cyber-Attacks in Small Business Sectors: A Cybersecurity Concern Tabisa **Ncubukezi**, Cape Peninsula University of Technology, Cape Town, South Africa (V)
11:40	16:40	Commentary on Healthcare and Disruptive Innovation Hilary **Finch**, Xavier-Lewis **Palmer**, Old Dominion University, Norfolk, USA, Affia **Abasi-Amefon**, University of Tartu, Estonia, Jung **Woosub**, William & Mary, USA and Lucas Potter, BiosView, USA (V)	UAV Payload Identification with Acoustic Emissions and Cell Phones Hunter **Doster** and Barry **Mullins**, Air Force Institute of Technology, USA (Masters) - (V)
12:00	17:00	*Break*	*Break*
		Zoom Room 1 **Stream B: IoTs and Ret-gadgets** **Chair:**	
13:00	18:00	Digital Geopolitics: A Review of the Current State Gazmend **Huskaj**, Geneva Centre for Security Policy, Geneva, Switzerland (V)	
13:20	18:20	LoRaWAN & The Helium Blockchain: A Study on Military IoT Deployment Michael A. **Reyneke**, Mark G. **Reith** and Barry E. **Mullins**, Air Force Institute of Technology, Wright-Patterson AFB, USA (V)	
13:40	18:40	Ret-gadgets in RISC-V-based Binaries Resulting in Traps for Hijackers Toyosi **Oyinloye**, Thaddeus **Eze**, University of Chester, Lee **Speakman**, University of Salford, UK (V)	
14:00	19:00	Room 165 & Zoom Room 1 **Summary of the Conference:** **Awards to the winner of the Best PhD Paper and Best Poster**	
14:30	19:30	*Close of Conference*	*Close of Conference*
		Poster Presentations	
		Physical Posters Friday 10th March **10:00-10:30** *poster presenters to stand with their posters and present the work*	**Virtual Posters** Friday 10th March **10:00-10:40 EST** (15:00-15:40 GMT) **Zoom Room 1** *5 minute presentations with time for questions and discussion*
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		Healthcare Cybersecurity Hygiene in the Age of Electronic Medical Records Azza **AlGhamdi**, Marymount University, Fairfax Station, United States (Poster Only) (P)	Combating Social Media Manipulation through Artificial Intelligence and Game-based Solutions' Clara **Maathuis**, Open University, Heerlen, the Netherlands and Sabarathinam **Chockalingam**, Institute for Energy Technology, Norway (invited Poster) (V)
		Cybersecurity Governance of Operational Technology in Sector Connected Smart Energy Neworks CSG Tapio **Frantti**, Reijo Savola and Jussi **Simola**, University of Jyväskylä, Finland (invited Poster) (P)	A Cognitive Model of a Radar Detection Task Alexander R. **Hough**, Christopher **Stevens** and Elizabeth **Fox** Air Force Research Laboratory, Wright-Patterson Air Force Base, USA (invited Poster - V)
		Towards a Medical Digital Twin: Modern Biometrics and their Relevance for Sensor Fusion Christoph **Lipps**, Jan **Herbst**, Lea **Bergkemper**, Jan **Petershans**, Matthias **Rüb** and Hans Dieter **Schotten**, German Research Center for Artificial Intelligence, Germany (invited Poster) (V)	