-	21st European Conference on Cyber Warfare and Security (ECCWS 2022)				
	The University of Chester, UK 16 -17 June 2022				
	All timings in	n GMT+1 - UK Time			
	Wednesday 15 June	Zoom Room Details			
	Pre-Conference Workshop: How Cyber Warfare and Information Operations are changing E Presented by Dr Leigh Armistead (Room: BINKS CBK247/2)	iverything! PASSCODE FOR ALL ROOMS IS: ECCWS22 Zoom Room 1			
	Pre-Conference Registration and Welcome Drink at Premier Inn - Chester Railway Station (u				
	Thursday 16 June	Zoom Room 2			
	Conference Registration at The University of Chester, UK	https://us02web.zoom.us/j/84692324763			
	Zoom Room 1 Opens	Zoom Room 3 https://us02web.zoom.us/j/87292180076			
	09:00 Welcome to the Conference https://usu2web.zoom.us/j/8/2921800/6 09:15 Keynote: Dr Charles Clarke, Senior Lecturer in Cyber Security and Programme Convenor, University of Roehampton, UK				
	Employability by Design: A Strategy for Career Ownership				
10:00	10:00 Break and conference splits into streams				
	Stream A: Cyber Warfare	Stream B: Cyber Skills			
	Chair: Christoph Lipps	Chair: Huw Read			
10:10	Zoom Room 1 & CBK106 Public Authorities as a Target of Disinformation	Zoom Room 2 & CBK107 Researching Graduated Cyber Security Students: Reflecting Employment and Job Responsibili	ibilities		
	Pekka Koistinen, Milla Alaraatikka, Teija Sederholm, Dominic Savolainen, Aki-Mauri	through NICE framework			
	Huhtinen and Miina Kaarkoski National Defence University, Helsinki, Finland	Karo Saharinen , Jarmo Viinikanoja and Jouni Huotari , JAMK University of Applied Sciences, Finland (virtual)	es, 		
10:30	How are Hybrid Terms Discussed in the Recent Scholarly Literature? Ilkka Tikanmäki and Harri Ruoslahti , Laurea University of Applied Sciences, Espoo,	Pedagogical and Self-Reflecting Approach to Improving the Learning within a Cyber Exercise Anni Karinsalo , Jarno Salonen , VTT Technical Research Centre of Finland Ltd, Oulu, Karo			
	Finland (virtual)	Saharinen, University of Jyväskylä, and Jani Päijänen, Jyväskylä Security Technology, Finland			
10:50	Infinite Game Theory & Cybersecurity	(virtual) (virtual) Desired Cybersecurity Skills and Skills Acquisition Methods in the Organizations			
	Jacob Oakley, T2S Solutions, Huntsville, USA (Non-Academic Presentation Only) (virtual)	Kirsi Aaltola , University of Jyväskylä, Harri Ruoslahti and Jarmo Heinonen , Laurea University Applied Sciences, Espoo, Finland (virtual)	sity of		
11:10		Short Break			
11:20	Supporting Situational Awareness in VANET Attack Scenarios Dimah Almani , Steven Furnell and Tim Muller , University of Nottingham, UK	The Search for Cybersecurity Social Contract in Democracy: The Citizen's Perspective Jan Kleiner , Masaryk University, Brno, Czech Republic (Presentaion Only)			
11:40	Cyber Warfare 2022 the Next Level \$#@! You Need to Know in Today's Cyber Battlefield	Including Human Behaviors into IA Training Assessment: A Better Way Forward!			
	Michele (Micki) Boland , Check Point Software Technologies, Irving, USA (Presentation only)	Henry Collier , Norwich University, Northfield, USA			
	Reith, Russell, and the Robots: Al, Warfare, and Shaping the Debate	Societal Impacts of Cyber Security in Academic Literature – Systematic Literature Review			
	Keith Scott, De Montfort University, Leicester, UK	Eveliina Hytönen , Harri Ruoslahti ,and Amir Trent , Laurea University of Applied Sciences, Esp Finland (virtual)	Espoo,		
12:20	Lunch Break	Lunch Break			
	Stream A: Internet of Things	Stream B: PhD and Masters Colloquium			
	Chair: Henry Collier Zoom Room 1 & CBK106	Chair: Connie Justice and Ian Sutherland Zoom Room 2 & CBK107			
13:20	The Emergence of IIoT and its Role in Critical Information Infrastructure	The Cyber Era`s Character of War			
	Humairaa Bhaiyat and Siphesihle Sithungu and University of Johannesburg, South Africa	Maija Turunen , Finnish National Defence University, Helsinki, Finland (PhD)			
	Obstacles on the Dath to the Internation This printed Divide	Assessing Information Security Continuous Monitoring in the Federal Government Tina AlSadhan and Joon Park , Syracuse University, USA (PhD) (virtual)			
13:40	Obstacles on the Path to the Internet of Things: The Digital Divide John Gray , Nova Southeastern University, Fort Lauderdale, USA (virtual)				
		Expectations And Mindsets Related To GDPR Pauliina Hirvonen , University of Jyväskylä, Finland (PhD) (virtual)			
	Strategies for Internet of Things Data Privacy and Security Using Systematic Review	A Cyber Counterintelligence Competence Framework			
	Sithembiso Khulamo , Amanda Sibiya and Teballo A. Kekana , University of Johannesburg, South Africa (virtual)	Thenjiwe Sithole and Jaco Du Toit University of Johannesburg, South Africa (PhD)))		
14:20	A managerial review and guidelines for Industry 4.0 factories on Cybersecurity	Enhancing the STIX Representation of MITRE ATT&CK for Group Filtering and Technique	ique		
	Najam Ul Zia , Ladislav Burita , Aydan Huseynova and Victor Kwarteng Owusu , Tomas	Prioritization Mateusz Zych and Vasileios Mavroeidis , University of Oslo, Norway (PhD)			
	Bata University in Zlin, Zlin, Czech Republic (virtual)	Analysis of Sexual Abuse of Children Online and CAM Investigations in Europe			
		Johanna Parviainen and Jyri Rajamäki, Laurea University of Applied Sciences, Finland (Mas	√lasters)		
14:40	Physical Layer Security: About Humans, Machines and the Transmission Channel	(virtual)			
	Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intelligence, Kaiserslautern, Germany	Forensic Trails Obfuscation and Preservation via Hard Drive Firmware Paul Underhill , Toyosi Oyinloye , Thaddeus Eze , University of Chester, and Lee Speakm	kman,		
		University of Salford, UK (Masters)			
45.00	The Protocole of the Elders of Zion, Europia and Social Media Western An Ethical and	An Impact of the Information Security Threats Among Small Businesses During Covid19 Panc			
15:00	The Protocals of the Elders of Zion, Euravia and Socail Media Warfare: An Ethical and Anticipatory Ethical Analysis	Inga Mzileni and Tabisa Ncubukezi , Cape Peninsula University of Technology, South Afr (Masters) (virtual)	ATTICA		
	Richard Wislon ,Towson University, Towson, USA (Virtual)	Cyber Concerns With Cloud Computing			
		Jacob Chan and Mark Reith, Air Force Institute of Technology, Dayton, USA (Masters) (virtu	virtual)		
15:20	Break	Break			
	Stream A: Mini Track on Enhancing Critical Infrastructure Cybersecurity	Stream B: Criminal Activity			
	Chair: Leigh Armistead Zoom Room 1 & CBK106	Chair: Micki Boland Zoom Room 2 & CBK107			
15:40	Combining System Integrity Verification with Identity and Access Management	An Analysis of the Prevalence of Game Consoles in Criminal Investigations in The United Kingo	-		
	Markku Kylänpää and Jarno Salonen , VTT Technical Research Centre of Finland, Espoo Finland (virtual)	Iain Sutherland , Noroff University College, Norway, Huw Read , Norwich University, USA and Konstantinos Xynos , Mycenx, Germany	nd		
16:00	An Ontological Model for a National Cyber-attack Response in South Africa	Probability of Data Leakage and its Impacts on Confidentiality			
	Aphile Kondlo , Louise Leenen University of the Western Cape and Joey Jansen van	Paul Simon, and Scott Graham, Air Force Institute of Technology, Wright Patterson AFB, USA	JSA		
	Vuuren, Tshwane University of Technology, South Africa (virtual) Developing Mandatory Reporting for Cyber-Attacks on U.S. Businesses	(virtual) Turner Diaries: The Camp of the Saints and Domestic Terrorism: An Ethical and Anticipatory E	y Ethical		
10.20	Franck Baylor and Mark Reith, AFIT, Beavercreek, USA (virtual)	Analysis			
16:40	Cybersecurity Threats to and Cyberattacks on Critical Infrastructure: a Legal Perspective	Richard Wislon ,Towson University, Towson, USA (Virtual) Classification of Cyber Security Costs: Case of Lithuanian Enterprises			
	Murdoch Watney , University of Johannesburg, South Africa	Olga Navickienė , Aidas Vasilis Vasiliauskas , General Jonas Žemaitis Military Academy of Lithuania, Vilnius, Gintarė Giriūnienė , Mykolas Romeris University, Lithuania (Presentation onl			
17:00	Close of Conference Day	Close of Conference Day	-··· J /		
19.00	In Bound Boutising and Confession Bisson	Duttere 10.13 Codetall In Charling Charles CH1.11N			

In Person Participants: Conference Dinner at Duttons, 10 12 Godstall Ln, Cheshire, Chester, CH1 1LN

19:00

Friday 17 June			
9.90.90 Introduction to ECCW 2023 1000 Break and Poster Presentations - In person presenters to stand by poster and virtual presenters in Zoom Room 3 Stream A: Mini Track on Interdisciplinary Research in Cyber Security Chair: Char Sample Zoom Room 18. CBK105 10.30 A Cyber-Opinoracy and Cyber-security Asserted Research (Color) (Char Meathuris, Open University, Heerlen, Nenherlands (Printing Presentations - In Person Poster Presentations - In Person Posters In Person Poster Presenters will stand by their posters during the Friday Management for a Virtual Cround Station Virtual Prenamy Address: De Breat Name (Color) (Char Proper Evaluation Charles) (Char Poster) (Char Proper Evaluation Charles) (Charles) (Ch			
Multidaciplinarity and Multistackholderism for Cyber Resilience of Emerging Economies: Lessons from Cyber Challenges 50-50 Introduction to ECCWS 2023 50-50 Introduction to EC			
Break and Poster Presentations - In person presenters to stand by poster and virtual presenters in Zoom Room 3			
Stream & Mini Track on Interdisciplinary Research in Cybersecurity Chair: Char Sample Countries			
Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Char Sample Zoom Room 1 & CBK.06 10:30 A Cyber-Diplomacy and Cybersecurity Awareness Framework (CDAF) for Developing of Arics Amarta, Jaco Du Tolt and Basie Von Solms, University of Johannesburg, South Africa Amarta, Jaco Du Tolt and Basie Von Solms, University of Johannesburg, South Africa Amarta, Jaco Du Tolt and Basie Von Solms, University of Johannesburg, South Africa Amarta, Jaco Du Tolt and Basie Von Solms, University of Johannesburg, South Africa Amarta, Jaco Du Tolt and Basie Von Solms, University of Johannesburg, South Africa Charta, Mathusis, Open University, Heerien, Nebretlands and Sabarathinam Chockalingam, Institute for Energy Technology, Norway 11:10 Cyberteriflory An Exploration of the Concept John South Africa Charta, Johannesburg, South Africa Charta,			
Chair: Char Sample Zoom Room 1 & CEKU06 10:30 A Cher-Diplomacy and Cybersecurity Awareness Framework (CDAF) for Developing Countries. Hendrik Zwarts, Jaco Du Tolt and Basic Von Solms, University of Johannesburg, South Africa 10:50 Responsible Digital Security Behavior. Definition and Assessment Model Clara Mashrusi, Open University, Hearfor, the Netherlands and Sabarathinam Chockalingam, Institute for Energy Technology, Norway 11:10 (Cybertenitor). An Expination of the Concept John-Pekka Rautava, University of Colut, and Mari Ristolainen, Finnish Defence Research Agency, Pilminas, Finniand (virtual) 11:30 (The Road to Designing Responsible Al Systems in Military Cyber Operations Clara Mashrusik, Open University, Hearfore, Netherlands (virtual) 11:50 (A Collaborative Design Method for Safety and Security Engineers Talo Sasaki, Takashi Hamagudh and Yoshirib or Hashimoto, Nagoya institute of technology, Japan (virtual) 12:10 (Building Software Applications Securely with DevSecOps: A Socio-Technical Perspective Remine Natioo, and Nicolaas Möller, University of Pretoria, South Africa (virtual) 12:13 (June 1) 13:30 (Lunch Breek Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Char Sample 200m Room 2 & CRISTO 20m Room 2 & CRISTO 21:30 (Davis Pretoria) 22:30 (Davis Pretoria) 23:30 (Davis Pretoria) 24:30 (Davis Pretoria) 25:30 (Dav			
Zoom Room 1.8. CRX106			
Zoom Room 1.8. CRX106			
10.30 A Cyber-Diplomacy and Cybersecurity Awareness Framework (CDAF) for Developing Countries Hendrik Zwarts, Jaco Du Tolt and Basie Von Solms, University of Johannesburg, South Africa 10.50 Responsible Digital Security Behavior. Definition and Assessment Model Clara Masthuis, Open University, Heerlen, the Netherlands and Sabarathinam Chockalingam, Institute for Energy Technology, Norway 110 Darries Agrangement for Counterproductive work behavior in T Sectors Cazi Masthuis, Open University, Heerlen, the Netherlands and Sabarathinam Chockalingam, Institute for Energy Technology, Norway 110 Darries Agrangement on Counterproductive work behavior in T Sectors Cazi Manthuis, Open University of Oulu, and Mari Ristolainen, Finnish Defence Research Agency, Rilhimak, Finland (virtual) 1130 On the Road Designing Repossible Al Systems in Military Cyber Operations Carra Masthuis, Open University, Herefen, Netherlands (virtual) 1150 A Collaborative Design Method for Safety and Security Engineers Tatlo Sasaki, Tasabi Hamaguchi and Yoshinib Hashimoto, Nagoya institute of Julian Marian			
Hendrik Zwarts, Jaco Du Tolt and Base Von Solms, University of Johannesburg, South Africa 10:50 Responsible Digital Security Behavior: Definition and Assessment Model Clara Manathuis, Open University, Heerlen, the Netherlands and Sabarathinam Chockalingam. Institute for Energy Technology, Norway 11:10 Cybertarricty, An Exploration of the Concept John-Pekka Rautava, University of Oulu, and Mari Ristolainen, Finnish Defence Research Agency, Rimmal, Finniand Virtual) 11:30 On the Road to Designing Responsible Al Systems in Military Cyber Operations Clara Manthuis, Open University, Heerlen, Netherlands (virtual) A Collaborative Design Method for Safety and Security Engineers Taito Sasaki, Takash Hamaguchi and Yoshihiro Hashimoto, Nagoya institute of Taito Sasaki, Takash Hamaguchi and Yoshihiro Hashimoto, Nagoya institute of Building Scheme Applications Securely with DevesCorps: A Social Technical Perspective Rennie Naldoo, and Nicolass Möller, University of Pretoria, South Africa (virtual) 2:20	ation Testbed		
10.50 Responsible Digital Security Behavior. Definition and Assessment Model Clara Machus, Open University, Hearlen, the Netherlands and Sabarathinam Chockalingam, Institute for Energy Technology, Norway 11.10 Cybeterriciny. An Exploration of the Concept Jori-Pekka Rautava, University of Oulu, and Mari Ristolainen, Finnish Defence Research Jackson, University, University of Oulu, and Mari Ristolainen, Finnish Defence Research Jackson, University of University of Johnson Solms, University of Johnsonesburg, South Afri Agency, Rimman, Finnish Defence Research Clara Machulus, Open University, Hearlen, Netherlands (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya Institute of lechnology, Japan (virtual) Tato Sasaki, Takashi Hamaguchi and Yoshihiro Hashimot			
Joir-Pekka Rautava, University of Outu, and Mart Ristolainen, Finnish Defence Research Agency, Rillmaki, Finand (virtual) 11:30 On the Road to Designing Responsible Al Systems in Military Cyber Operations Clara Maathuis, Open University, Heerien, Netherlands (virtual) 11:50 Al Collaborative Design Method for Safety and Security Engineers Taito Sasaki, Takashi Hamaguchi and Yoshibiro Hashimoto, Nagoya institute of technology, Japan (virtual) 12:10 Building Software Applications Securely with DevSecOps: A Socio-Technical Perspective Rennie Naidoo, and Nicolass Moller, University of Pretoria, South Africa (virtual) 21:20 Lunch Break Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Char Sample Zoom Room 1 & C6K106 Zoom Room 2 & C6K107 Alexander Petiferfir, Thoras Wernbacher, Denk Natalie, Donau Universität Krems, Austria and Stephen Bezzina, Vince Vella and Alexiei Dingil University of Malta, Malta 14:10 Layer 8 Trajis: Overwhelming Malicious Actors With Distracting Information Toni Virtanen and Petteri Simola, Finnish Defence Research Agency (FDRA), Jarvenpää, Pinnish Defence Research Agency (FDRA), Jarvenpää, Jarve	ors of Pakistan		
Liss A Collaborative Design Method for Safety and Security Engineers Taito Sasaki, Takashi Hamaguchi and Yoshihiro Hashimoto, Nagoya institute of technology, Japan (virtual) 12:10 Building Software Applications Securely with DevSecOps: A Socio-Technical Perspective Rennie Naidoo, and Nicolaas Möller, University of Pretoria, South Africa (virtual) 12:30 Lunch Break Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Char Sample Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Char Sample Char Sample Software Applications State University, USA, Ian Poynter, Cragin Shelton, Unyneth Hormung, Independent Researcher, USA & Come Lustite, Purdue School of Engineering and Technology, USA Ton Virtuana Adkins, Norwich University Northfield, Vermont, USA (virtual) 14:30 Identification of Violence in Twitter Using a Custom Lexico and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intelligence, Kaiserslautern, Germany (WIP Paper) Jyri Rajamäki and Martina Järvinen, Laurea University (Virtual) Lophology, Japan (virtual) Lophology, Japan (virtual) Automatic Construction of Hardware Traffic Validators Jason Dahlstrom, Web Sensing LLC, USA, Stephen Taylor, Brandon Guzman, El Darton With Stephen Bazzine, Web Seas Stephen Taylor, Brandon Guzman, El Darton Web Stephen Stephe			
Tailo Sasaki, Takasah Hamaguchi and Yoshihiro Hashimoto, Nagoya institute of technology, Japan (virtual) 12:10 Building Software Applications Securely with DevSecOps: A Socio-Technical Perspective Rennie Naidoo, and Nicolaas Möller, University of Pretoria, South Africa (virtual) 12:30 Lunch Break Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Char Sample 200m Room 1 & CBK105 270m Room 2 & CBK107 270m Roo			
Rennie Naidoo, and Nicolaas Möller, University of Pretoria, South Africa (virtual) Jasorn Dahlstrom, Web Sensing LLC, USA, Slephen Taylor, Brandon Guzman, El Jasornburk College, Hanover NH, USA Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Jaco du Toit Zoom Room 1 & CBK106 Zoom Room 2 & CBK107 Char Sample, Sim Ming Loo, Boise State University, USA, Ian Poynter, Cragin Shelton, Lynette Hornung, Independent Researcher, USA & Connie Justice, Purdue School of Engineering and Technology, USA Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau Universität Krems, Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau Universität Krems, Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau Universität Krems, Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau University of Malta, Maltal 14:101 (Jayer 8 Tarpits: Overwhelming Malicious Actors With Distracting Information Tori Virtnen and Petteri Simola, Finnish Defence Research Agency (FDRA), Järvenpää, Finland 14:30 (Jentification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoom Room 3 [S minute presentations with time for discussion] DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignoe, Kaiserslautern, Germany (WIP Paper)			
Stream A: Mini Track on Interdisciplinary Research in Cybersecurity Chair: Char Sample Zoom Room 1 & CBK106 13:30 ZTA: Never Trust, Always Verify Char Sample, Sin Ming Loo, Boise State University, USA, Ian Poynter, Cragin Shelton, Lynette Hornung, Independent Researcher, USA & Connie Justice, Purdue School of Engineering and Technology, USA Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau Universität Krems, Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau University of Malta, Malta 14:10 Layer & Targits: Overwhelming Malicious Actors With Distracting Information Toni Virtanen and Petteri Simola, Finnish Defence Research Agency (FDRA), Järvenpää, Finland 14:30 Identification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) 14:50 Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoo 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 [5 minute presentations with time for discussion] ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Healthcare How to Utilize E-EWS as a Tool in Healthcare	ı, Ellie Baker,		
Chair: Char Sample Zoom Room 1 & CBK106 13:30 ZTA: Always Verify Char Sample, Sin Ming Loo, Boise State University, USA, Ian Poynter, Cragin Shelton, Lynette Hornung, Independent Researcher, USA & Connie Justice, Purdue School of Engineering and Technology, USA Alwander Pfolffer, Thomas Wernbacher, Denk Natalie, Donau Universität Krems, Alustria and Stephen Bezzina, Vince Vella and Alexiel Dingil University of Malta, Malta 14:10 Layer 8 Tarpits: Overwhelming Malicious Actors With Distracting Information Toni Virtanen and Peterte Simola, Finnish Defence Research Agency (FDRA), Järvenpää, Pinland 14:30 Identification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) 14:50 Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoom Room 3 (S minute presentations with time for discussion) ECHOLOper-Skills Educations and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvenoen, Laurea University of Applied Sciences, Fir Artificial Intellignce, Kaiserslautern, Germany (WIP Paper)			
Zoom Room 1 & CBK106 Zoom Room 2 & CBK107	·		
13:30 ZTA: Never Trust, Always Verify Char Sample, Sin Ming Loo, Boise State University, USA, Ian Poynter, Cragin Shelton, Lynette Hornung, Independent Researcher, USA & Connie Justice, Purdue School of Engineering and Technology, USA 13:50 Two Novel Use-Cases for Non-Fungible Tokens (NFTs). Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau Universität Krems, Austria and Stephen Bezzina, Vince Vella and Alexiei Dingil University of Malta, Malta 14:10 Layer 8 Tarpits: Overwhelming Malticious Actors With Distracting Information Toni Virtanen and Petteri Simola, Finnish Defence Research Agency (FDRA), Järvenpää, Finland 14:30 Idantification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) 14:50 Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoo 10:00 10:00-11:30 Virtual Poster Presentations with time for discussion) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Melecona Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir Artificial Intellignce, Kaiserslautern, Germany (WIP Paper)			
Char Sample, Sin Ming Loo, Boise State University, USA, Ian Poynter, Cragin Shelton, Lynette Hornung, Independent Researcher, USA & Connie Justice, Purdue School of Engineering and Technology, USA 13:50 Two Novel Use-Cases for Non-Fungible Tokens (NFTs), Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau Universität Krems, Austria and Stephen Bezzina, Vince Vella and Alexiel Dingil University of Malta, Malta 14:10 Layer 8 Tarpits: Overwhelming Malicious Actors With Distracting Information Toni Virtanen and Petteri Simola, Finnish Defence Research Agency (FDRA), Järvenpää, Finland 14:30 Identification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) Loos of Oxide Alexandre Sequency Risk Assessment Subjects in Information Flows Cyber Security Risk Assessment Subjects in Information Flows Doun Pöyhönen, Aarne Hummelholm and Martti Lehto, University of Jyväskylä, Fidective Cyber Threat Hunting: Where and how does it fit? Nombeko Ntingi, Petrus Duvenage, Jaco du Toit and Sebastian von Solms, Univ Johannesburg, South Africa Siamese neural network and Machine Learning for DGA classification Lander Segural-Gil, Telmo Eguies, Francesco Zola, and Raul Orduna-Urrutia, V Donostia San Sebastian, Spain, 14:50 In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoom Room 3 (5 minute presentations with time for discussion) ECHO			
Lynette Hornung, Independent Researcher, USA & Connie Justice, Purdue School of Engineering and Technology, USA 13:50 Two Novel Use-Cases for Non-Fungible Tokens (NFTs). Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau Universität Krems, Austria and Stephen Bezzina, Vince Vella and Alexiei Dingil University of Malta, Malta 14:10 Layer 8 Tarpits: Overwhelming Malicious Actors With Distracting Information Toni Virtanen and Petteri Simola, Finnish Defence Research Agency (FDRA), Järvenpää, Finland 14:30 Identification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) 14:50 Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Uncionable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper)			
Alexander Pfeiffer, Thomas Wernbacher, Denk Natalie, Donau Universität Krems, Austria and Stephen Bezzina, Vince Vella and Alexiei Dingil University of Malta, Malta 14:10 Layer 8 Tarpits: Overwhelming Malicious Actors With Distracting Information Toni Virtanen and Petteri Simola, Finnish Defence Research Agency (FDRA), Järvenpää, Finland Identification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) 14:50 Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoon 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir Autrificial Intellignce, Kaiserslautern, Germany (WIP Paper)			
Austria and Stephen Bezzina, Vince Vella and Alexiei Dingil University of Malta, Malta 14:10 Layer 8 Tarpits: Overwhelming Malicious Actors With Distracting Information Toni Virtanen and Petteri Simola, Finnish Defence Research Agency (FDRA), Järvenpää, Finland 14:30 Identification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) Samese neural network and Machine Learning for DGA classification Lander Segurola-Gil, Telmo Egües, Francesco Zola, and Raul Orduna-Urrutia, V Donostia San Sebastian, Spain, 14:50 Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoo 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intelligence, Kaiserslautern, Germany (WIP Paper) Austria and Alexie Beffective Cyber Threat Hunting: Where and how does it fit? Nombeko Ntingi, Petrus Duvenage, Jaco du Toit and Sebastian von Solms, Univ Johannesburg, South Africa Siamese neural network and Machine Learning for DGA classification Lander Segurola-Gil, Telmo Egües, Francesco Zola, and Raul Orduna-Urrutia, V Donostia San Sebastian, Spain, 14:50 Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoo 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen,	: Figland (int a 1)		
14:10 Layer 8 Tarpits: Overwhelming Malicious Actors With Distracting Information Toni Virtanen and Petteri Simola, Finnish Defence Research Agency (FDRA), Järvenpää, Finland 14:30 Identification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) 14:50 Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoo 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) Effective Cyber Threat Hunting: Where and how does it fit? Nombeko Ntingl, Petrus Duvenage, Jaco du Toit and Sebastian von Solms, Univ Johannesburg, South Africa Siamese neural network and Machine Learning for DGA classification Lander Segurola-Gil, Telmo Egües, Francesco Zola, and Raul Orduna-Urrutia, V Donostia San Sebastian, Spain, Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoo 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamāki and Jussi Karvonen, Laurea University of Applied Sciences, Fir How to Utilize E-EWS as a Tool in Health care	a, Finland (Virtual)		
14:30 Identification of Violence in Twitter Using a Custom Lexicon and NLP Jonathan Adkins, Norwich University, Northfield, Vermont, USA (virtual) Siamese neural network and Machine Learning for DGA classification Lander Segurola-Gil, Telmo Egües, Francesco Zola, and Raul Orduna-Urrutia, V Donostia San Sebastian, Spain, Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoc 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) Siamese neural network and Machine Learning for DGA classification Lander Segurola-Gil, Telmo Egües, Francesco Zola, and Raul Orduna-Urrutia, V Donostia San Sebastian, Spain, Siamese neural network and Machine Learning for DGA classification Lander Segurola-Gil, Telmo Egües, Francesco Zola, and Raul Orduna-Urrutia, V Donostia San Sebastian, Spain, Summary of the conference and Award to the winner of the best PhD paper Close of Conference 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir How to Utilize E-EWS as a Tool in Healthcare	Jniversity of		
Summary of the conference and Award to the winner of the best PhD paper Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoo 10:00 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir How to Utilize E-EWS as a Tool in Healthcare	a, Vicomtech,		
Close of Conference In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoo 10:00 10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir How to Utilize E-EWS as a Tool in Healthcare			
10:00 10:00-11:30 Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir How to Utilize E-EWS as a Tool in Healthcare	paper		
Virtual Poster Presentations Chair Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fire How to Utilize E-EWS as a Tool in Healthcare	In Person Poster Presenters will stand by their posters during the Friday morning refreshment break at 10:00, virtual posters will be presented in Zoom Room 3 a		
In Person Posters Chair Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fire How to Utilize E-EWS as a Tool in Healthcare			
In Person Posters Chair Zoom Room 3 (5 minute presentations with time for discussion) DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fire How to Utilize E-EWS as a Tool in Healthcare			
DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Mc Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir			
DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) (5 minute presentations with time for discussion) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Me Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir How to Utilize E-EWS as a Tool in Healthcare			
DRAM-Based Physically Unclonable Functions and the Need for Proper Evaluation Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) ECHO Cyber-Skills Framework as a Cyber-Skills Education and Training Tool in Health and Mt Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir How to Utilize E-EWS as a Tool in Healthcare)		
Pascal Ahr, Christoph Lipps and Hans Dieter Schotten, German Research Center for Artificial Intellignce, Kaiserslautern, Germany (WIP Paper) Eleonora Beltempo, Jyri Rajamäki and Jussi Karvonen, Laurea University of Applied Sciences, Fir How to Utilize E-EWS as a Tool in Healthcare	•		
Wittery: A Password Training Tool!			
Henry Collier, Johannes G. Meyer and Adele E. Cousland, Norwich University, Northfield, USA (Invited Poster) Identifying Malware Variants Through DNA Sequence-Based Signature Extraction Sreenivas Sremath Tirumala, Manukau Institute of Technology, Auckland, New Zealand and Nara College, New Zealand			
Post Modernism, Post Truth, and the Information Warfare on Democracy: Ethical and Anticipa Richard Wislon, Towson University, Towson, United States	icipated Ethical Issues		
The Great Replacement, White Genocide, and the War on Multiculturalism: An Ethical and Anticipal Richard Wislon, Towson University, Towson, United States	ticipatory Ethical Analys		
Societal Impacts of Cybersecurity Jarmo Heinonen and Harri Ruoslahti, Laurea University of Applied Sciences, Finland (Invi	(Invited Poster)		
Hybrid Threats Against Crisis Management Ilkka Tikanmäki and Harri Ruoslahti, Laurea University of Applied Sciences, Finland (Invit	Invited Poster)		
My Buddy: Digital Companion Allison Wylde, Cardiff University, Cardiff, UK (invited Poster)			