

Cyber Science 2024 Conference Timetable

June 27-28, 2024


Craiglockhart Campus, Edinburgh Napier University
Scotland, UK

Theme – **Building Community of Good Practice in Cybersecurity**

Thursday June 27, 2024 | UK Time zone: GMT+0

Time	Description	
09:00 – 09:45	Registration and Breakfast	
	Registration - Open from 9:00 am - Closes at 9:45 am	
	<i>All delegates must complete their registration process before the 9:45 AM cut-off time. Please arrive in a timely manner to allow for registration and to avoid any inconvenience.</i>	
09:45 – 10:00	<i>We appreciate your cooperation in helping us maintain the event's schedule and ensuring that everyone can fully participate in the Cyber Science Conference. If you have any questions or require assistance, our event organisers will be available to assist you with the registration process.</i>	
	<i>Thank you for your understanding, and we look forward to an insightful and valuable event together!</i>	
09:45 – 10:00	Conference Announcements	
	<i>Cyber Science 2024 is the 10th episode of the International Conference on Cybersecurity, Situational Awareness and Social Media (Cyber Science 2024), a multidisciplinary event focusing on advancing the principles, methods and applications of cybersecurity, situational awareness and social media.</i>	
	<i>The theme of this year's event is Building Community of Best Practice in Cybersecurity.</i>	
10:00 – 10:30		

	<p>Conference Proceedings Opening</p> <p>Professor William (Bill) Buchanan OBE, PhD, FBCS, PFHEA, CEng, BSc (Hons)</p>	 <p>Professor William (Bill) Buchanan OBE, PhD, FBCS, PFHEA, CEng, BSc (Hons) Professor of Applied Cryptography, Edinburgh Napier University</p>
<p>10:40 – 11:40</p>	<p>Keynote Session</p> <p>Dr. Lynsay Shepherd</p>	 <p>Dr. Lynsay Shepherd Senior Lecturer in Cybersecurity and HCI School of Design and Informatics Division of Cyber Security</p>
<p>11:40 – 11:50</p>	<p>Coffee & Tea Break</p>	
	<p>Day 1 / Session 1: Host & Moderator: Sean</p>	<p>Day 1 / Session 2: Host & Moderator: Petra</p>
<p>11:50 - 12:20</p>	<p>Towards a Secure Manufacturing Framework for Single Malt Whisky in Industry 4.0</p> <p><i>Jacob Connell, Dimitrios Kasimatis, Pavlos Papadopoulos, William J. Buchanan, Panagiotis Sarigiannidis and Nikolaos Pitropakis</i></p>	<p>Critical Infrastructures in the Cloud</p> <p><i>Martin Gilje Jaatun and Geir Kjetil Hanssen</i></p>
<p>12:20 - 12:50</p>	<p>TIPS: Threat Sharing Information Platform for Enhanced Security</p> <p><i>Lakshmi Rama Kiran Pasumathy, Hisham Ali, William Buchanan, Jawad Ahmad, Audun Josang, Vasileios Mavroeidis and Mouad Lemoudden</i></p>	<p>Design of Pairing Free Attribute-based Encryption for Smart Grid Applications</p> <p><i>Anjali Kumari, Sreevallabh Karanam, Swejan Annabathini and Kamalakanta Sethi</i></p>
<p>12:50 - 13:50</p>	<p>Group Photography & Lunch Break</p>	


14:00 - 14:30	Utilizing YARA: An Effective Method for Phishing Attack Response <i>Ferenc Leitold</i>	Malware Detection using Machine Learning Algorithms <i>Nureni Ayofe Azeez, Ogechukwu Juliet Nzeribe, Charles Van der Vyver and Ademola Philip Abidoye</i>
14:30 – 15:00	A Case Study of a Ransomware and Social Engineering Competition <i>Aunshul Rege and Rachel Bleiman</i>	
15:00 – 15:15	Coffee & Tea Break	
15:15 – 16:15	Keynote Session R.V. Gundur, PhD	 R.V. Gundur, PhD Criminologist & Lecturer University of the West of Scotland, Scotland, UK
16:15 – 16:30	Coffee & Tea Break	
16:30 – 17:00	Digital Evidence from the Legal Practitioners' Perspective <i>Ibeabuchi Egbu, Jacques Ophoff and Annelize McKay</i>	Attack Resilient Federated Learning Framework <i>Sushant Kumar, Kasturi Routray and Padmalochan Bera</i>
17:00 – 17:30	Improving Credit Card Fraud Detection with Combined Feature Extraction and Class Balance Optimisation Techniques <i>Boluwatife Ajibade-Ajibosin, Uchenna Daniel Ani, Theocharis Kyriacou and Mark Turner</i>	Attention based Image Steganography Using CNNs in Integration with Quantization <i>Sravan Kumar Gatram, Kamalakanta Sethi, Piyush Joshi and Rakesh Kumar Sanodiya</i>
18:00 – 21:00	Evening Dinner & Drinks & Photos	

Friday June 28, 2024

Theme – **Building Community of Good Practice in Cybersecurity**

UK Time zone: GMT+0

Cyber Science 2024 Conference		
09:00 – 09:30	Coffee & Tea	
09:30 – 10:30	Keynote Session Dr. Uchenna Daniel Ani	 Dr. Uchenna Daniel Ani Lecturer in Cybersecurity, & Programme Lead MSc in Cyber Security Keele University, UK
10:30 – 10:45	Coffee & Tea Break	
	Day 2 / Session 3: Host & Moderator: Sean	Day 2 / Session 4: Host & Moderator: Petra
10:45 – 11:15	An Exemplar Incident Response Plan for Security Operations Center Analysts <i>Enoch Agyepong and Cyril Onwubiko</i>	Cybersecurity Upskilling for Criminal Justice Professionals <i>Yan Bai and Juan Li</i>
11:15 – 11:45	RingGuard: A privacy protected Peer-to-Peer Federated Learning Framework <i>Narasimhan Kovalai, Ramsundar Tanikella, Rojalini Tripathy and Padmalochan Bera</i>	A Survey on Firmware Security Fuzzers <i>Silje Marie Sørlien, Åse Marie Solnør, Karin Bernsmed and Martin Gilje Jaatun</i>
11:45 – 12:00	Coffee & Tea Break	
12:00 – 12:30	Industry Talk	
12:30 – 13:30	Perception of cyber risk for assisted living technologies in the Norwegian healthcare sector – key stakeholders perceptions <i>Alvhild Skjelvik and Bian Yang</i>	vSPACE: Voting in a Scalable, Privacy-Aware and Confidential Election <i>Se Elnour, William Buchanan, Paul Keating, Mwrwan Abubaka and Sirag Elnour</i>
13:30 – 13:45	Group Photography & Lunch Break	
13:45 – 14:15	Exploring DTrace as an Incident Response Tool for Unix Systems <i>Joe Duin, Sean McKeown and Mwrwan Abubakar</i>	

14:15 – 14:45	TRIST: Towards a container-based ICS testbed for cyber threat simulation and anomaly detection <i>Carol Lo, Jack Christie, Thu Yein Win, Zeinab Rezaeifar, Zaheer Khan and Phil Legg</i>	Workshop Insights: Navigating Cybersecurity Regulations for Device Manufacturers and Healthcare Operators <i>Andrea Skytterholm, Lars Halvdan Flå and Martin Gilje Jaatun</i>
14:45 – 15:00	Coffee & Tea Break	
15:00 – 15:30	Implementation of Zones and Conduits in Industrial Control and Automation Systems <i>Lars Halvdan Flå, Mary Ann Lundteigen, Fredrik Gratte and Martin Gilje Jaatun</i>	Radio Frequency (RF) Cyber Threats and a novel RF Cyber Kill Chain <i>Carolyn Swinney and Woods John</i>
15:30 – 16:30	Panel Discussion AI for Cybersecurity: How do we use Artificial Intelligence (AI) to secure Applications and Systems Speakers: Professor Rajendra K. Raj, Dr Sara Vecchini and Dr Cyril Onwubiko	
16:35	Closing of the Proceedings by Dr Cyril Onwubiko	 Dr. Cyril Onwubiko Founder – Centre for Multidisciplinary Research, Innovation and Collaboration & Conference Co-Chair

Legend

Conference Talks	Conference Talks	Panel Session	Keynote Session	Lunch & Dinner / Drinks
------------------	------------------	---------------	-----------------	-------------------------