

Interdisciplinary Cyber Research conference 2019

29th of June, Tallinn University of Technology,
SOC building, Akadeemia tee 3, rooms SOC-209&211

AGENDA

- 8:30** Registration
- 9:00** Opening words, **Dr Anna-Maria Osula & Prof Olaf Maennel**
on behalf of Tallinn University of Technology (SOC-209)
- 9:10** Keynote presentation, *“The Rise and Fall of Social Media – Countering the Influence and Power of Mass Online Communication”*,
Dr Adrian Venables, senior researcher at TalTech Centre for Digital Forensics and Cyber Security (SOC-209)
- 10:05** Keynote presentation, *“Human Rights in the Time of Cyber Surveillance”*,
Dr Joanna Kulesza, assistant professor of international law at the University of Lodz (SOC-209)
- 11:00** Coffee break

	ROOM 1 / SOC-209	ROOM 2 / SOC-211
11:30–13:00	SESSION 1: Cyber Exercises	SESSION 2: Digital Forensics 1
	<p><i>Session moderated by Prof Olaf Maennel, Tallinn University of Technology</i></p> <p>Mr Muhammad Mudassar Yamin, <i>“Modeling Attack and Defense Scenarios for Cyber Security Exercises”</i>, Norwegian University of Science and Technology</p> <p>Mr Gabor Visky, <i>“Cyber-Physical Battlefield for Cyber Exercises”</i>, NATO CCD COE</p> <p>Mr Kieren Ni�colas Lovell, <i>“Cyber Game to Cyber Exercise: A New Methodology for Cybersecurity Simulations”</i>, Tallinn University of Technology</p> <p>Ms Kaie Maennel, <i>“Team Learning in Cybersecurity Exercises”</i>, Tallinn University of Technology</p>	<p><i>Session moderated by Prof Hayretdin Bah�si, Tallinn University of Technology</i></p> <p>Prof Nickolas Falkner, <i>“Exploiting Dark Current for Forensic Image Identification”</i>, University of Adelaide</p> <p>Mr Andrew Roberts, <i>“Framework for Industrial Control Systems Digital Forensics in the Energy Sector”</i>, Tallinn University of Technology</p> <p>Mr Samuel Henderson & Mr Brian Du <i>“A Proactive Approach to Improving the Way We Use Machine Learning to Detect Social Bots on Twitter”</i>, University of Adelaide</p> <p>Mr Akim Essen, <i>“Multi-Modal Biometric System Security and Privacy”</i>, Tallinn University of Technology</p>

13:00 Lunch

14:00–15:30	ROOM 1 / SOC-209	ROOM 2 / SOC-211
	SESSION 3: Tech 1	SESSION 4: Legal Responses to Cyber Threats
	<p><i>Session moderated by Prof Tobias Eggendorfer, University of Applied Sciences Ravensburg-Weingarten</i></p> <p>Mr Alejandro Guerra Manzanares, <i>“In-depth Feature Selection and Ranking for Automated Detection of Mobile Malware”, Tallinn University of Technology</i></p> <p>Mr Kieren Ničolas Lovell, <i>“Exercise Neptune: Maritime Cybersecurity Training Using the Navigational Simulators”, Tallinn University of Technology</i></p> <p>Ms Grethe Østby, <i>“SIEMS in Crisis Management: Detection, Escalation and Presentation – A Work in Progress”, NTNU Department of Information Security and Communication Technology</i></p> <p>Mr Liam Shelby-James & Mr Stefan Norman, <i>“Reliability and Trust in Global Navigation Satellite Systems”, University of Adelaide</i></p>	<p><i>Session moderated by Dr Anna-Maria Osula, Tallinn University of Technology / Guardtime</i></p> <p>Mr Luukas Ilves, <i>“The Investment Case for (Cyber)security: Lessons from Estonia”, Guardtime</i></p> <p>Dr Jakub Harašta, <i>“Role of Lawyers in Cyber Exercises: Qualitative Study”, Masaryk University</i></p> <p>Ms Ivana Kudláčková, <i>“Legal Constraints on Cyber Weapons”, Masaryk University</i></p> <p>Ms Marija Makariūnaitė, <i>“Decryption Passwords and Biometric Authentication vs. Law Enforcement”, University of Tartu</i></p>

15:30 Coffee break

15:50 – 17:20	ROOM 1 / SOC-209	ROOM 2 / SOC-211
	SESSION 5: Tech 2	SESSION 6: Digital Forensics 2
	<p><i>Session moderated by Mr Aykan Inan, University of Applied Sciences Ravensburg-Weingarten</i></p> <p>Mr Jaan Priisalu, <i>“Analysis of the Impact of Poisoned Data on Twitter Classification Models”,</i> Tallinn University of Technology</p> <p>Mr Matthew Theiley, <i>“RISC-V ISA Custom Extensions for Use in Cryptography”,</i> University of Adelaide</p> <p>Mr Charlie Tran & Mr Stefan Smiljanic <i>“Utilising a Vehicle Testbed Environment to Develop Deceptive CAN Bus Attacks”,</i> University of Adelaide</p> <p>Mr Ahmad Amine Loutfi, <i>“De-Hyping Blockchain-Based Cross Border Payment Solutions: A Quantitative Comparative Study of Decentralized Blockchain Infrastructures Vs. SWIFT GPI”,</i> Norwegian University of Science and Technology</p>	<p><i>Session moderated by Prof Matthew Sorell, University of Adelaide</i></p> <p>Mr Ben Agnew, <i>“An Overview of Information Security Concepts and Their Relevance to Digital Forensic Evidence Procedures”,</i> University of Adelaide</p> <p>Mr Glenn Walsh & Mr Jimmy Tang, <i>“Forensic Applications of 3D Scanning”,</i> University of Adelaide</p> <p>Mr Luke Jennings, <i>“Identifying Patterns and Activities from iPhone and Apple Watch Step-Count Data for Use in a Digital Investigation”,</i> University of Adelaide</p> <p>Ms Joanna Rose Castillon del Mar, <i>“Automated Photo Categorization for Digital Forensic Analysis Using a Machine Learning-Based Classifier”,</i> Tallinn University of Technology</p>

17:20 Closing remarks and awards (SOC-209)

18:00 Bus leaving for social event

18:15 Social event at restaurant [La Rumbi](#) (Rumbi 4, Tallinn)

The organizer reserves the right to make changes in the programme.