

# Program

WEDNESDAY, 21 MAY 2025		
Time		
08:00-09:00	Registration	
09:00-09:30	<b>Conference Opening</b> <i>Tatjana Welzer, General chair IFIP SEC 2025</i> <i>Mirjana Kljajić Borštnar, Slovenian Society INFORMATIKA</i> <i>Lili Nemec Zlatolas, Programme committee co-chair IFIP SEC 2025</i>	
09:30-10:30	<b>Invited Speaker</b> <b>Nastja Cepak, CREAPLUS, Slovenia</b> <b>Post-Quantum Cryptography and the Decade of Transition</b> Hall City A   Chaired by Lili Nemec Zlatolas	
10:30-11:00	Coffee break ☕	
11:00-12:40	<b>IFIP SEC session 1: Privacy-enhancing technologies</b> Hall City A   Chaired by Leon Strous	<b>WISE session 1: Workforce and Curriculum Development</b> Hall City B
	Advanced strategies for privacy preserving data publishing to improve multi-class classification. <i>Tibo Laperre, Jenno Verdonck, Kevin De Boeck, Michiel Willocx, and Vincent Naessens.</i>	WISE Opening Remarks
	COLIBRI: Optimizing Multi-Party Secure Neural Network Inference Time for Transformers. <i>Daphnee Chabal, Tim Muller, Eloise Zhang, Dolly Sapra, Cees de Laat, and Zoltán Ádám Mann.</i>	Expanding the Cybersecurity Workforce: Challenges, Current Practices and Future Directions in Attracting and Cultivating Multidisciplinary Talent. <i>Christos Kallonas; Eliana Stavrou.</i>
	SAAFL: Secure Aggregation for Label-Aware Federated Learning. <i>Aftab Akram, Harry N. H. Pham , Melek Önen, Clémentine Gritti.</i>	INFER: Enhancing Digital Forensics Education through Ready-to-Use Hands-on Labs with Portable Operating Environments. <i>Tran Ngoc Bao Huynh; Haowen Xu; Brian Almaguer; Jun Dai; Xiaoyan Sun.</i>
	"We've met some problems": Developers' Issues With Privacy-Preserving Computation Techniques on Stack Overflow. <i>Patrick Kühtreiber, Sabrina Heimermann, Sebastian Schillinger, and Delphine Reinhardt.</i>	An Evaluation Process for Tools that Build or Evidence Competency in Cybersecurity: Development and Lessons Learned. <i>Stephen Miller; Christopher Simpson; Eugene Vasserman; Susanne Wetzel.</i>
12:40-13:40	Lunch 🍽️	
13:40-15:20	<b>IFIP SEC session 2: Emerging Threats and Countermeasures</b> Hall City A   Chaired by Edgar Weippl	<b>WISE session 2: Innovative Approaches to Cybersecurity Awareness</b> Hall City B
	CoolTest: Improved Randomness Testing Using Boolean Functions. <i>Jiri Gavenda and Marek Sýs.</i>	The Cyber Range Lite <i>Leonardo Martucci; Jonathan Magnusson; Tobias Vehkajärvi; Jonas Karlsson.</i>
	Uncovering Robot Joint-Level Controller Actions from Encrypted Network Traffic. <i>Cheng Tang, Diogo Barradas, Urs Hengartner, and Yue Hu.</i>	A Car Hacking Mini-Unit for High School Cybersecurity Education <i>Cooper Dean; Brian Almaguer; Timothy Buck; Nichole Kunkle; Christian Nguyen; Preet Patel; Anne Roberts; Marti Shirley; Huirong Fu; Xiaoyan Sun; Jun Dai.</i>
	Generating and Attacking Passwords with Misspellings by Leveraging Homophones. <i>Shiva Houshmand, Smita Ghosh, and Jared Maeyama.</i>	<b>Invited talk</b> <b>Cybersecurity Awareness via Physical Games</b> <i>Steven Furnell</i>
	Facing the Challenge of Leveraging Untrained Humans in Malware Analysis. <i>Benjamin Zi Hao Zhao, Hassan Jameel Asghar, Muhammad Ikram, Mohamed Ali Kaafar, Sean Lamont, and Daniel Coscia.</i>	
15:20-15:50	Coffee break ☕	
15:50-16:10	<b>WISE Workshop Intro: Advancing Digital Privacy Education: A Global Curriculum Initiative</b> <i>Gurvirender Tejay; Tamara Bonaci; Travis Breaux; Ümit Cali; Ernesto Cuadros-Vargas; Sara Foresti; Andrew McGettrick; Rajendra Raj; Kai Rannenberg; Andrew Seely.</i> Hall City A	
16:10-17:50	<b>IFIP SEC session 3: Industrial and Critical Infrastructure Security</b> Hall City A   Chaired by Doğan Kesdoğan	<b>WISE session 3: Gamification in Cybersecurity Education</b> Hall City B
	Artefact Provenance Graphs for Anomaly Inference in Industrial Control Systems. <i>Marco M. Cook and Dimitrios Pezaros.</i>	Loss Aversion and Fixed Reward in Gamified Cyber Security Training. <i>Nicole Carle; Jacques Ophoff; Lynsay Shepherd.</i>
	Certified Secure Updates for IoT Devices. <i>Alberto Tacchella, Emanuele Beozzo, Bruno Crispo, and Marco Roveri.</i>	Improving Cyber Security Incident Response: A Collaborative Tabletop Game Approach.

		Andreas Seiler; Ulrike Lechner.
	LSAST: Enhancing Cybersecurity through LLM-supported Static Application Security Testing. <i>Mete Kellek, Rong Hu, Mohammadreza Fani Sani, and Ziyue Li.</i>	Gamified Defence: Practical Guidelines for Combating Social Engineering Attacks. <i>Amandla Mpanza; Tapiwa Gundu; Lynn Futcher.</i>
	FRAMICS: Functional Risk Assessment Methodology for Industrial Control Systems. <i>Ahmed Elmarkez, Soraya Mesli-Kesraoui, Flavio Oquendo, and Pascal Berruet.</i>	Lucky the Fish Teaches Children About Phishing. <i>Given Mnisi; Gunther Drevin; Lynette Drevin.</i>
18:00-19:00	City tour 🗺️	
19:00-21:00	Welcome Reception at the Oldest Vine House – Wine tasting 🍷	

THURSDAY, 22 MAY 2025			
Time			
08:00-09:00	Registration		
09:00-10:00	<b>Invited Speaker</b> <b>Jaideep Vaidya, Rutgers University, USA – KBA award winner</b> <b>AI and Conceptions of Privacy</b> Hall City A   Chaired by Tatjana Welzer		
10:00-10:30	Coffee Break ☕		
10:30-12:10	<b>IFIP SEC session 4: Privacy protection</b> Hall City A   Chaired by Zoltán Ádám Mann		<b>WISE session 4: Workshop</b> Hall City B
	Post-Processing in Local Differential Privacy: An Extensive Evaluation and Benchmark Platform. <i>Alireza Khodaie, Berkay Kemal Balioglu, and M. Emre Gursoy.</i>		Workshop Advancing Digital Privacy Education: A Global Curriculum Initiative. <i>Gurvirender Tejay; Tamara Bonaci; Travis Breaux; Ümit Cali; Ernesto Cuadros-Vargas; Sara Foresti; Andrew McGettrick; Rajendra Raj; Kai Rannenberg; Andrew Seely.</i>
	Rubber Ducky Station: Advancing HID Attacks with Visual Data Exfiltration. <i>August See, Thimo Grußendorf, Jona Laudan, and Mathias Fischer.</i>		
	PrivTru: A Privacy-by-Design Data Trustee Minimizing Information Leakage. <i>Lukas Gehring and Florian Tschorsch.</i>		
	Towards a lightweight and privacy-friendly Architecture for Online Advertising. <i>Maximilian Wittig and Doğan Kesdoğan.</i>		
12:10-12:40	Light lunch 🍽️		
12:40-13:30	<b>IFIP SEC session 5: IoT security</b> Hall City A   Chaired by Vincent Naessens	<b>IFIP SEC session 6: Risk Management</b> Hall City C   Chaired by Marko Hölbl	<b>WISE session 5: Standards / Regulations</b> Hall City B
	Future-Proof Asynchronous IoT Backups: An Evaluation of Secure IoT Data Recovery Considering Post-Quantum Threats. <i>Dmytro Shvets, Edona Fasilija, Jakob Heher, and Stefan More.</i>	Time is money: A temporal model of cybersecurity. <i>Zoltán Ádám Mann.</i>	Regulatory Challenges in Cybersecurity – A Critical Analysis of the EU AI Act. <i>Frederic Tronnier; Sascha Löbner; Marie-Hernance Lacombe; Kai Rannenberg.</i>
	Checking the Impact of Security Standardization – A Case Study on Bluetooth LE Pairing of Internet-of-Things Devices. <i>Henrich C. Pöhls and Lukas Steffens.</i>	Update at Your Own Risk: Analysis and Recommendations for Update-related Vulnerabilities. <i>Ahmad B. Usman and Mikael Asplund.</i>	Exposing the Gaps: The State of Supply Chain Coverage in Current Security Standards. <i>Nico Mexis; Bjarne Lill; Yousef Doleh; Stefan Katzenbeisser.</i>
14:00-23:00	Half-day excursion to Ptuj and conference dinner at the Dominican Monastery in Ptuj 🏰		

FRIDAY, 23 MAY 2025			
Time			
08:00-09:00	Registration		
09:00-10:40	<b>IFIP SEC session 7: Industrial and Critical Infrastructure Security</b> Hall City A   Chaired by Marcus Belder	<b>WISE session 6: Curriculum and Research Development</b> Hall City B	<b>WNDSS: Opening, Keynote, Session 1</b> Hall City C   Chaired by Zoltán Ádám Mann

	<p>Data Transformation for IDS: Leveraging Symbolic and Temporal Aspects. <i>Enzo Zamaï, David Espes, Audrey C. Therrien, and Catherine Dezan.</i></p>	<p>A Transdisciplinary Approach to Embedding Cybersecurity Across the Curriculum of an Undergraduate Computing Degree Program in South Africa. <i>Michael De Jager; Reolyn Heymann; Japie Greeff.</i></p>	Opening
	<p>SAFARI: a Scalable Air-gapped Framework for Automated Ransomware Investigation. <i>Tommaso Compagnucci, Franco Callegati, Saverio Giallorenzo, Andrea Melis, Simone Melloni, and Alessandro Vannini.</i></p>	<p>Using Attack Trees for Security Education and Training: Simplifying Threat Analysis. <i>Aliyu Tanko Ali; Damas Gruska.</i></p>	<p><b>Keynote</b> <b>Security Issues with Networked and Distributed Systems</b> <i>Matt Bishop (University of California Davis, USA)</i></p>
	<p>SAVA Deployment for Spoofed Source Attacks. <i>Wenjie Yang, Yong Tang, and Wenying Wang.</i></p>	<p>Integrating Security Concepts into Introductory Programming Courses. <i>Alina Torbunova; Ivan Porres.</i></p>	WNDSS Session 1: Security of Industrial Control Systems
	<p>Lightweight and Persistent Remote Attestation: Leveraging a Continuous Chain of Trust in Software Integrity Measurements. <i>Florian Kohnhäuser, Nicolas Coppik, Christian Göttel, and Sören Finster.</i></p>	<p>CSEC Foundations Guidelines. <i>Matt Bishop; Philip Huff; Jun Dai; Melissa Dark.</i></p>	<p>A Novel Evidence-Based Threat Enumeration Methodology for ICS. <i>Can Özkan and Dave Singelée.</i></p>
10:40-11:10	Coffee break ☕		
11:10-12:10	<p><b>Invited Speaker</b> <b>Reinhard Posch, Institute of Applied Information Processing and Communications at Graz University of Technology, Austria</b> <b>eIDAS2 – a milestone for security in public services?</b> Hall City A   Chaired by Kai Rannenberg</p>		<p><b>WNDSS Session 2: Binary Protocols and Security of Smart Grids</b> Hall City C   Chaired by Joaquin Garcia-Alfaro</p> <p>Flatdc: Automatic Schema Reverse Engineering of FlatBuffers. <i>August See, Lilly Sell, Benedikt Ostendorf, and Mathias Fischer.</i></p> <p>Security Metrics for False Data Injection in Smart Grids. <i>Moritz Volkmann, Sascha Kaven, and Volker Skwarek.</i></p>
12:10-13:10	Lunch 🍽️		
13:10-14:50	<p><b>IFIP SEC session 8: Data and Application Security</b> Hall City A   Chaired by Marko Kompara</p> <p>How stealthy is stealthy? Studying the Efficacy of Black-Box Adversarial Attacks in the Real World. <i>Francesco Panebianco, Mario D'Onghia, Stefano Zanero, and Michele Carminati.</i></p> <p>Certifiably robust malware detectors by design. <i>Pierre-François Gimenez, Sarath Sivaprasad, and Mario Fritz.</i></p> <p>"You still have to study" – On the Security of LLM generated code. <i>Andreas Schaad, Stefan Götz, and Dominik Binder.</i></p> <p>Identifying and Analyzing Vulnerabilities and Exploits in On-Premises Kubernetes. <i>Sunny Chowdhury and Florian Freund.</i></p>	<p><b>WISE session 7: IFIP 11.8 WG AGM and closing session</b> Hall City B</p> <p>Annual working group AGM open to all members and WISE participants.</p>	<p><b>WNDSS Session 3: Resilience, Anonymity Networks, and Liveness Detection</b> Hall City C   Chaired by Alessandro Brighente</p> <p>A Quantum Algorithm for Assessing Node Importance in the st-Connectivity Attack. <i>Iain Burge, Michel Barbeau, and Joaquin Garcia-Alfaro.</i></p> <p>BERMUDA: A BPSec-Compatible Key Management Scheme for DTNs. <i>Fiona Fuchs, Felix Walter, and Florian Tschorsch.</i></p> <p>Impact Analysis of Sybil Attacks in the Tor Network. <i>Christoph Sendner, Dominik Schreider, and Alexandra Dmitrienko.</i></p> <p>Time-Aware Face Anti-Spoofing with Rotation Invariant Local Binary Patterns and Deep Learning. <i>Moritz Finke and Alexandra Dmitrienko.</i></p>
14:50-15:20	<p><b>Awards Session</b> <b>IFIP SEC 2026</b> <b>Conference Closing</b> <i>Marko Hölbl, Organizing committee chair IFIP SEC 2025</i> Hall City A</p>		<p><b>WNDSS Session 4: IFIP WG11.4 Meeting &amp; Closing Remarks</b> Hall City C   Chaired by Zoltán Ádám Mann</p>
15:20-15:50	Farewell refreshments and last chats 🍷		