

Conference Program

This is a preliminary programme and is subject to change!

All the times listed below are in Central European Summer Time (CEST)!

You can change the timezone here: ▼

Monday, 21 September 2020			
09:30-17:30	IFIP SEC 2020 Reception Desk & other booths Room: Expo		
09:45-10:30	Conference Opening <i>Tatjana Welzer, General Chair & Lili Nemec Zlatolas, Local Chair</i> <i>Steven Furnell, IFIP TC-11 Chair</i> <i>Kai Rannenberg, Marko Hölbl, Co-Program Chairs</i> Room: Stage		
10:30 – 12:00	IFIP SEC 2020 – Session 1 Detecting malware and software weaknesses <i>Chair: Marko Hölbl</i>	CCN – Session 1 A European Competence Network of Cybersecurity Centres of Excellence <i>Chair: Tatjana Welzer</i>	IFIP Summer School 2020 – Session 1 Pattern and models <i>Chair: Stefan Schiffner</i>
Room: Sessions	JavaScript malware detection using locality sensitive hashing <i>Stefan Carl Peiser, Ludwig Friborg and Riccardo Scandariato</i>	CONCORDIA: A Cybersecurity Competence Network with leading research, technology, industrial and public compete <i>Sotiris Ioannidis, CONCORDIA</i> Women in cyber – CONCORDIA H2020 contribution <i>Barbara Carminati, CONCORDIA</i>	Introduction to the Summer School
	RouAlign: Cross-Version Function Alignment and Routine Recovery with Graphlet Edge Embedding <i>Can Yang, Mengxia Luo, Jian Liu, Xiaorui Gong and Baoxu Liu</i>		Influence of “Dark Patterns” on Opting-out in Cookie Banner Design <i>Michael Toth</i>
	Code between the Lines: Semantic Analysis of Android Applications <i>Johannes Feichtner and Stefan Gruber</i>	ECHO: Strengthening Cyber Defence in Europe through efficient multi-sector and multi-domain collaboration <i>Matteo Merialdo, ECHO</i>	A Serious Game on the GDPR, and Privacy and Security Awareness <i>Ahad Niknia and Sebastian Pape</i>
12:00- 13:00	Networking		
13:00 – 14:30	IFIP SEC 2020 – Session 2 Human aspects of security and privacy <i>Chair: Lili Nemec Zlatolas</i>	CCN – Session 2 A European Competence Network of Cybersecurity Centres of Excellence <i>Chair: Marko Hölbl</i>	
Room: Sessions	Assisting users to create stronger passwords using ContextBased MicroTraining <i>Joakim Kävrestad and Marcus Nohlberg</i>	This is SPARTA: Towards European Strategic Autonomy <i>Augustin Lemesle, SPARTA</i>	

	Facilitating Privacy Attitudes & Behaviors with Affective Visual Design <i>Agnieszka Kitkowska, Yefim Shulman, Leonardo A. Martucci and Erik Wästlund</i>		
	Privacy CURE: Consent Comprehension Made Easy <i>Olha Drozd and Sabrina Kirrane</i>	CyberSec4Europe – Aiming to safeguard values through excellence in cybersecurity <i>Kai Rannenberg, CyberSec4Europe</i>	
14:30 – 15:30	Keynote: “Data Security and Privacy in the IoT” <i>Elisa Bertino – Kristian Beckman Award Recipient</i> Purdue University West Lafayette, USA <i>Chair: Steven Furnell</i> Room: Stage		
15:30 – 16:00	Networking		
16:00 – 17:30	IFIP SEC 2020 – Session 3 Access control and authentication <i>Chair: Nicolas Sklavos</i>	WISE 13 – Session 1 <i>Chair: Matt Bishop</i>	IFIP Summer School 2020 – Session 2 Societal Impact <i>Chair: Michael Friedewald</i>
Room: Sessions	Revisiting Security Vulnerabilities in Commercial Password Managers <i>Michael Carr and Siamak Shahandashti</i>	Learning and Grading Cryptology via Automated Test Driven Software Development <i>Konstantin Knorr</i>	What is the Role of Control over Personal Information for Privacy Cynicism and Personal Data Disclosure? <i>Thao Ngo, Ina Rentemeister and Nicole Krämer</i>
	Evaluation of Risk-based Re-Authentication Methods <i>Stephan Wiefeling, Tanvi Patil, Markus Dürmuth and Luigi Lo Iacono</i>	An Institutional Risk Reduction Model for Teaching Cybersecurity <i>Erik Moore, Daniel Likarish, Bobbie Bastian and michael brooks</i>	e-Health as a target in Cyberwar: Expecting the worst <i>Samuel Wairimu</i>
	Fuzzy Vault for Behavioral Authentication System <i>Md Morshedul Islam and Reihaneh Safavi-Naini</i>		The ethics of ethical hacking – abstract <i>Fredrik Heiding</i>
Tuesday, 22 September 2020			
10:30-17:30	IFIP SEC 2020 Reception Desk & other booths Room: Expo		
11:00 – 12:00	IFIP SEC 2020 – Session 4 System security <i>Chair: António Pinto</i>	WISE 13 – Session 2 <i>Chair: Wai Sze Leung</i>	IFIP Summer School 2020 – Session 3 Applications of differential privacy <i>Chair: Stefan Schiffner</i>
Room: Sessions	IMShell-Dec :Pay More Attention to External Links in PowerShell <i>Ruidong Han, Chao Yang, Jianfeng</i>	A serious game-based peer-instruction digital forensics workshop <i>Ludwig Englbrecht and Günther Pernul</i>	Combination of differential privacy mechanisms for continuous collection of mobile data <i>Héber H. Arcolezi, Jean-François</i>

	<i>Ma, Siqi Ma, Yunbo Wang and Feng Li</i>		<i>Couchot, Béchara Al Bouna and Xiaokui Xiao</i>
	Secure Attestation of Virtualized Environments <i>Michael Eckel, Markus Springer, Andreas Fuchs and Jürgen Repp</i>	Threat Poker: Gamification of Secure Agile <i>Audun Jøsang, Viktoria Stray and Hanne Rygge</i>	Privacy-preserving IDS for In-Car-Networks with Local Differential Privacy <i>Peter Franke, Michael Kreutzer and Hervais Simo Fhom</i>
12:00 – 13:00	Networking		
13:00 – 14:30	IFIP SEC 2020 – Session 5 Network security and privacy <i>Chair: Miguel Correira</i>	WISE 13 – Session 3 <i>Chair: Lynn Fletcher</i>	IFIP Summer School 2020 – Session 4 Electronic payments <i>Chair: Stephan Krenn</i>
Room: Sessions	Security and Performance Implications of BGP Rerouting-resistant Guard Selection Algorithms for Tor <i>Asya Mitseva, Marharyta Aleksandrova, Thomas Engel and Andriy Panchenko</i>	How to Teach the Undecidability of Malware Detection Problem and Halting Problem <i>Pascal Lafourcade, Malika More, Léo Robert, Journault Matthieu and Rémy Poulain</i>	Security in e-payments: two-factor authentication under PSD2 and GDPR <i>Danaja Fabcic</i>
	Actively Probing Routes for Tor AS-level Adversaries with RIPE Atlas <i>Wilfried Mayer, Georg Merzdovnik and Edgar Weippl</i>	Enlivening Port Scanning Exercises with Capture the Flag and Deduction <i>Frans F. Blauw</i>	Privacy in Payment in the Age of Central Bank Digital Currency <i>Frédéric Tronnier</i>
	zeek-osquery: Host-Network Correlation for Advanced Monitoring and Intrusion Detection <i>Steffen Haas, Robin Sommer and Mathias Fischer</i>	Encouraging Equivocal Forensic Analysis through the Use of Red Herrings <i>Wai Sze Leung</i>	An Evaluation of the Trust Assumptions and Privacy Guarantees of Electronic Payment Systems <i>Peter Hamm</i>
14:30 – 15:30	Keynote: “How to Fix Vulnerability Fixing” <i>Stanka Šalamun and Mitja Kolšek</i> 0patch by ACROS Security <i>Chair: Lili Nemec Zlatolas</i> Room: Stage		
15:30 – 16:00	Networking		
16:00 – 17:30	IFIP SEC 2020 – Session 6 Channel attacks <i>Chair: Kai Rannenberg</i>	WISE 13 – Session 4 <i>Chair: Audun Jøsang</i>	IFIP Summer School 2020 – Session 5 Human Factors and Education <i>Chair: Robin Pierce</i>
Room: Sessions	Leaky Controller: Cross-VM Memory Controller Covert Channel on Multi-Core Systems <i>Benjamin Semal, Konstantinos Markantonakis, Raja Naeem Akram and Jan Kalbantner</i>	An Analysis and Evaluation of Open-source CTF Platforms as Cybersecurity e-Learning Tools <i>Stylianios Karagiannis and Emmanouil Magkos</i>	Analysing drivers' preferences for privacy enhancing car-to-car communication systems <i>Lejla Islami, Simone Fischer-Hübner, Eunice Naa Korkoi Hammond and Jan Eloff</i>
	Evaluation of Statistical Tests for Detecting Storage-Based Covert Channels <i>Thomas Sattolo and Jason Jaskolka</i>	Quality Criteria for Cyber Security MOOCs <i>Simone Fischer-Hübner, Matthias Beckerle, Alberto Lluch Lafuente, Antonio Ruiz Martínez, Karo Saharinen, Antonio Skarmeta and Pierantonio Sterlin</i>	Learning Analytics and Privacy – Respecting Privacy in Digital Learning Scenarios <i>Marvin Priedigkeit, Andreas Weich and Ina Schiering</i>

	IE-Cache: Counteracting Eviction-Based Cache Side-Channel Attacks through Indirect Eviction <i>Muhammad Asim Mukhtar, Muhammad Khurram Bhatti and Guy Gogniat</i>	Education for the multifait community of cybersecurity <i>Steven Furnell and Matt Bishop</i>	
Wednesday, 23 September 2020			
09:30-17:30	IFIP SEC 2020 Reception Desk & other booths Room: Expo		
10:00 – 11:30	IFIP SEC 2020 – Session 7 Crypto currencies <i>Chair: Leon Strous</i>	WISE 13 – Session 5 <i>Chair: Lynette Drevin</i>	IFIP Summer School 2020 – Session 6 Identity Protection <i>Chair: Stephan Krenn</i>
Room: Sessions	Improvements of the Balance Discovery Attack on Lightning Network Payment Channels <i>Gijs van Dam, Rabiah Abdul Kadir, Puteri N.E. Nohuddin and Halimah Badioze Zaman</i>	Designing Competency Models for Cybersecurity Professionals for the Banking Sector <i>Andrey Vybornov, Natalia Miloslavskaya and Alexander Tolstoy</i>	Preserving Privacy in Caller ID applications <i>Tamara Stefanovic and Silvia Ghilezan</i>
	CCBRSN: A System with High Embedding Capacity for Covert Communication in Bitcoin <i>Weizheng Wang and Chunhua Su</i>	Exploring the Value of a Cyber Threat Intelligence Function in an Organization <i>Jacques Ophoff and Anzel Berndt</i>	“Identity management by design” with a technical Mediator under the GDPR <i>Anne Steinbrueck</i>
	Privacy-friendly Monero transaction signing on a hardware wallet <i>Dusan Klinec and Vashek Matyas</i>	Automating the Communication of Cybersecurity Knowledge: Multi-Case Study <i>Alireza Shojaifar, Samuel Fricker and Martin Gwerder</i>	Open about the open-rate? State of email tracking and its effects on user’s privacy <i>Shirin Kalantari</i>
11:30-12:00	Networking		
12:00-13:30	IFIP SEC 2020 – Session 8 Machine learning and security <i>Chair: Juha Roning</i>	IFIP SEC 2020 – Session 9 Connection security <i>Chair: Miguel Pardal</i>	IFIP Summer School 2020 – Session 7 Tutorial & Lecture <i>Chair: Stefan Schiffner</i>
Room: Sessions	Escaping Backdoor Attack Detection of Deep Learning <i>Yayuan Xiong, Fengyuan Xu, Sheng Zhong and Qun Li</i>	Refined detection of SSH brute-force attackers using machine learning. <i>Karel Hynek, Tomáš Beneš, Tomáš Čejka and Hana Kubátová</i>	Don’t Tell Them now (or at all) – End User Notification Duties under GDPR and NIS Directive <i>Sandra Schmitz and Stefan Schiffner</i>
	FDFtNet: Facing Off Fake Images using Fake DetectionFine-tuning Network <i>Hyeonseong Jeon, Youngoh Bang and Simon Woo</i>	MultiTLS: Secure communication channel with cipher suite diversity <i>Ricardo Moura, David R. Matos, Miguel L. Pardal and Miguel Correia</i>	Privacy-Enhancing Technologies – where are we after 25 years? <i>Marit Hansen, Data Protection Supervisor Schleswig-Holstein, ULD, Kiel, Germany</i>
	Correlations-Preserving Fingerprinting Technique for Categorical Data in Relational	Improving Big Data Clustering for Jamming Detection in Smart Mobility <i>Hind Bangui, Mouzhi Ge and Barbora Buhnova</i>	

	Databases <i>Tanja Šarčević and Rudolf Mayer</i>		
13:30 – 14:00	Networking		
14:00-15:30	IFIP SEC 2020 – Session 10 Privacy and security management <i>Chair: Jan Jürjens</i>	WG11.8 AGM meeting <i>Chair: Lynn Fitcher</i>	IFIP Summer School 2020 – Session 8 Privacy Friendly Data Sharing <i>Chair: Michael Friedewald</i>
Room: Sessions	A Matter of Life and Death: Analyzing the Security of Healthcare Networks <i>Guillaume Dupont, Daniel Ricardo dos Santos, Elisa Costante, Jerry den Hartog and Sandro Etalle</i>		Privacy Respecting Data Sharing and Communication in mHealth: A Case Study <i>Michael Pleger and Ina Schiering</i>
	Establishing a Strong Baseline for Privacy Policy Classification <i>Najmeh Mousavi Nejad, Pablo Jabat, Rostislav Nedelchev, Simon Scerri and Damien Graux</i>		Privacy-preserving Analytics for Data Markets <i>Karl Koch, Stephan Krenn, Donato Pellegrino and Sebastian Ramacher</i>
	Cross-Platform File System Activity Monitoring and Forensics – A Semantic Approach <i>Kabul Kurniawan, Andreas Ekelhart, Fajar J. Ekaputra and Elmar Kiesling</i>		Next steps and farewell
15:30-16:30	Yves Deswarte Best Student Paper Award <i>Lynn Fitcher, Chair of the Best Student Paper Award Committee</i> IFIP TC-11 <i>Steven Furnell, IFIP TC-11 Chair</i> Closing of the conference & “peculiar” paper awards <i>Tatjana Welzer, General Chair IFIP SEC 2020</i> IFIP SEC 2021 <i>Audun Jøsang</i> Room: Stage		
16:30-17:30	After conference networking and socializing Room: Sessions		