

# Preliminary Program

29 AUGUST 2018	
8:00-	Conference On-Site Registration
8:30-8:45	Welcome Speeches: TBD
8:45-9:30	<b>Invited Talk:</b> Privacy Invited Speaker
9:30: 10:15	<b>Invited Talk:</b> Trust Invited Speaker
10:15-10:35	<b>Morning Break</b>
<b>SECURITY 1: NETWORK SECURITY</b>	
10:35-12:05 (2 x 25 min. & 2 x 20 min)	[F] <i>Covert Data Exfiltration from Air-Gapped Networks via Switch and Router LEDs</i> Mordechai Guri, Boris Zadov, Andrey Daidakulov and Yuval Elovici
	[F] <i>Timing is Almost Everything: Realistic Evaluation of the Very Short Intermittent DDoS Attacks</i> Jeman Park and Aziz Mohaisen
	[S] <i>GIDS: GAN based Intrusion detection System for in-vehicle network</i> Eunbi Seo, Hyunmin Song and Huy Kang Kim
	[S] <i>Mitigating CSRF attacks on OAuth 2.0 and OpenID Connect</i> Wanpeng Li, Chris Mitchell and Thomas Chen
<b>PRIVACY 1: PRIVACY-PRESERVING COMPUTING I</b>	
10:30-12:05 (2 x 25 min. & 2 x 20 min)	[F] <i>Privacy-Preserving Architectures with Probabilistic</i> Kai Bavendiek, Robin Adams and Sibylle Schupp
	[F] <i>Approximating Robust Linear Regression with An Integral Privacy Guarantee</i> Navoda Senavirathne and Vicenc Torra.
	[S] <i>Privacy-Preserving Subgraph Checking</i> Stefan Wueller, Benjamin Assadsolimani, Ulrike Meyer and Susanne Wetzel
	[S] <i>Hide-and-Seek with Website Identity Information</i> Milica Stojmenovic and Robert Biddle
12:05-13:00	<b>Lunch</b>
<b>TRUST 1: USER'S TRUST</b>	
13:00-14:15 (3 x 25 min.)	[F] <i>Trust-driven, Decentralized Data Access Control for Open Network of Autonomous Data Providers</i> Łukasz Opiola, Łukasz Dutka, Renata G. Słota and Jacek Kitowski.
	[F] <i>Digitized Trust in Human-in-the-Loop Health Research</i> Andrew Sutton, Reza Samavi, Thomas Doyle and David Koff
	[F] <i>The continued risks of unsecured public Wi-Fi and why users keep using it: Evidence from Japan</i> Nissy Sombatruang, Youki Kadobayashi, Angela Sasse, Michelle Baddeley and Daisuke Miyamoto
<b>PRIVACY 2: Online Social Network Privacy</b>	
13:00-14:15 (3 x 25 min.)	[F] <i>At Your Own Risk: Shaping Privacy Heuristics for Online Self-disclosure</i> Nicolás Emilio Díaz Ferreyra, Rene Meis and Maritta Heisel
	[F] <i>Enabling Users to Balance Social Benefit and Privacy in Online Social Networks</i> Sourya Joyee De and Abdessamad Imine
	[F] <i>On Sybil Classification in Online Social Networks Using Only OSN Structural Features</i> Dieudonne Mulamba Kadimbadimbd, Indrajit Ray and Indrakshi Ray
<b>SECURITY 2: CRIPTOMINING AND MALWARE ANALYSIS</b>	
13:00-14:30 (1 x 25 min. 3 x	[F] <i>Detecting Cryptomining Using Dynamic Analysis</i> Domhnall Carlin, Phillip O'Kane, Sakir Sezer and Jonah Burgess.

20 min.)	[S] <i>A Power Analysis of Cryptocurrency Mining: A Mobile Device Perspective</i> James Clay, Alexander Hargrave and Ramalingam Sridhar
	[S] <i>Peer Based Tracking using Multi-Tuple Indexing for Network Traffic Analysis and Malware Detection</i> Matthew Hagan, Boojoong Kang, Kieran McLaughlin and Sakir Sezer
	[F] <i>A Family of Droids -- Android Malware Detection via Behavioral Modeling: Static vs Dynamic Analysis</i> Lucky Onwuzurike, Mario Almeida, Enrico Mariconti, Jeremy Blackburn, Gianluca Stringhini and Emiliano De Cristofaro
14:30-14:50	<b>Afternoon Break</b>
	<b>SECURITY 3: CRYPTOGRAPHY</b>
14:50-17:10 (4 x 25 min. & 1 x 20 min)	[F] <i>Automated Proofs of Signatures using Bilinear Pairings</i> Guruprasad Eswaraiah, Douglas Nedza and Roopa Vishwanathan
	[F] <i>On the Relationship Between Weak and Strong Deniable Authenticated Encryption</i> Paolo Gasti and Kasper Rasmussen.
	[F] <i>Secure Compression and Pattern Matching Based on Burrows-Wheeler Transform</i> Gongxian Zeng, Meiqi He, Linru Zhang, Jun Zhang, Yuechen Chen and Siu Ming Yiu
	[F] <i>Mining Sequential Patterns from Outsourced Data via Encryption Switching</i> Gamze Tillem, Zekeriya Erkin and Reginald Lagendijk.
	[S] <i>Enforcing Privacy and Security over Public Cloud Storage</i> João S. Resende, Rolando Martins and Luis Antunes.
14:40 – 17:00	<b>POSTERS SESSION</b>
18:30 – 21:00	<b>Banquet</b>
<b>30 AUGUST 2018</b>	
8:30-9:15	<b>Invited Talk:</b> Security Invited Speaker
9:15-10:00	<b>Invited Talk:</b> Industrial Research Invited Speaker
10:00-10:20	<b>Morning Break</b>
10:20-12:00 (4 x 25 min.)	<b>SECURITY 4: SECURITY VULNERABILITIES AND MALWARE</b>
	[F] <i>Managing Publicly Known Security Vulnerabilities in Software Systems</i> Baljeet Malhotra and Hesham Mahrous.
	[F] <i>Andro-Simnet: Android Malware Family Classification using Social Network Analysis</i> Hye Min Kim, Huy Kang Kim, Hyun Min Song and Jae Woo Seo
	[F] <i>Industry-Wide Analysis of Security Vulnerabilities in Open Source Software</i> Yiming Zhang, Baljeet Malhotra and Cheng Chen
	[F] <i>Unmasking Android Obfuscation Tools Using Spatial Analysis</i> Ratinder Kaur, Ye Ning, Hugo Gonzalez and Natalia Stakhanova.
10:20-11:50 (2 x 25 min. & 2 x 20 min,)	<b>PRIVACY 3: PRIVACY-PRESERVING COMPUTING II</b>
	[F] <i>The Possibility of Matrix Decomposition as Anonymization and Evaluation for Time-sequence Data</i> Tomoaki Mimoto, Shinsaku Kiyomoto, Seira Hidano, Anirban Basu and Atsuko Miyaji
	[F] <i>Privacy Preserving Probabilistic Record Linkage Without Trusted Third Party</i> Ibrahim Lazrig, Toan Ong, Indrakshi Ray, Indrajit Ray, Xiaoqian Jiang and Jaideep Vaidya
	[S] <i>CHARIOT: Cloud-Assisted Access Control for the Internet of Things</i> Clementine Gritti, Melek Onen and Refik Molva

	[S] <i>How-to Express Explicit and Auditable Consent</i> Ana Carvalho, Rolando Martins and Luís Antunes
12:00-13:00	<b>Lunch</b>
	<b>PRIVACY 4: LOCATION AND WEB PRIVACY</b>
	[F] <i>Location Privacy and Utility in Geo-social Networks: Survey and Research Challenges</i> Zohaib Riaz, Frank Duerr and Kurt Rothermel
13:00-14:30 (2 x 25 min. & 2 x 20)	[F] <i>Exploring User Behavior and Cybersecurity Knowledge – An experimental study in online shopping</i> Ghada El-Haddad, Amin Shahab and Esma Aimeur.
	[S] <i>Crossing Cross-Domain Paths in the Current Web</i> Jukka Ruohonen, Joonas Salovaara and Ville Leppänen.
	[S] <i>Parallel Linear Regression on Encrypted Parkinson's Disease Data</i> Toufique Morshed, Dima Alhadidi and Noman Mohammed
	<b>TRUST 2: CONFIDENTIALITY AND ACCESS CONTROL; SECURITY 5: SECURITY ANALYTICS</b>
	[F] <i>Coalition-Resistant Peer Rating for Long-Term Confidentiality</i> Giulia Traverso, Denis Butin, Alex Palesandro and Johannes Buchmann.
13:00-14:30 (2 x 25 min. & 2 x 20)	[F] <i>Problem-based Derivation of Trustworthiness Requirements from Users' Trust Concerns</i> Nazila Gol Mohammadi, Nelufar Ulfat-Bunyadi and Maritta Heisel
	[S] <i>Using AP-TED to Detect Phishing Attack Variations</i> Sophie Le Page, Qian Cui, Guy-Vincent Jourdan, Gregor V. Bochmann, Jason Flood and Iosif-Viorel Onut
	[S] <i>Smart4Gap: Factors that Influence Smartphone Security Decisions in Developing and Developed Countries</i> Jema David Ndibwile, Youki Kadobayashi and Doudou Fall
	<b>SECURITY 6: AUTHENTICATION, USER BEHAVIOUR, AND SECURITY ANALYSIS</b>
	[F] <i>Exploring the Impact of Password Dataset Distribution on Guessing</i> Hazel Murray and David Malone
13:00-14:30 (2 x 25 min. & 3 x 20 min.)	[F] <i>Demonstrating Cyber-Physical Attacks and Defense for Synchrophasor Technology in Smart Grid</i> Rafiullah Khan, Kieran McLaughlin, John Hastings, David Lavery and Sakir Sezer.
	[S] <i>An Implementation and Evaluation of Progressive Authentication Using Multiple Level Pattern Locks</i> William Aiken, Jungwoo Ryoo, Hyoungshick Kim and Mary Beth Rosson
	[S] <i>EagleEye: A Novel Visual Anomaly Detection Method</i> Iman Sharafaldin and Ali Ghorbani
14:30 – 15:00	<b>Closing</b>