

ESORICS 2017 Conference Programme

MONDAY / SEP 11	
09:00 - 09:30	<p>Introductions</p> <ul style="list-style-type: none"> • General Chair • Organisation Chair • PC Chairs
09:30 – 10:30	<p>Keynote 1: Cormac Herley "Justifying Security Measures" <i>Session Chair: Simon Foley</i></p>
10:30 – 11:00	Coffee break: coffee and fruit
11:00 – 12:30	<p>Session 1: Security of embedded things <i>Session Chair: Frederic Cuppens</i></p> <ul style="list-style-type: none"> • Antonino Rullo, Edoardo Serra, Elisa Bertino and Jorge Lobo. "Shortfall-based Optimal Placement of Security Resources for Mobile IoT Scenarios" • Sibylle Froeschle and Alexander Stühling. "Analyzing the Capabilities of the CAN Attacker" • Steffen Schulz, André Schaller, Florian Kohnhäuser and Stefan Katzenbeisser. "Boot Attestation: Secure Remote Reporting with Off-The-Shelf IoT Sensors"
11:00 – 12:30	<p>Session 2: Cryptographic Application I <i>Session Chair: Frederik Armknecht</i></p> <ul style="list-style-type: none"> • Gregory Demay, Peter Gazi, Ueli Maurer and Björn Tackmann. "Per-Session Security: Password-Based Cryptography Revisited" • Fabrice Benhamouda, Houda Ferradi, Rémi Géraud and David Naccache. "Non-Interactive Provably Secure Attestations for Arbitrary RSA Prime Generation Algorithm" • Martin Albrecht, Emmanuela Orsini, Kenneth Paterson, Guy Peer and Nigel Smart. "Tightly Secure Ring-LWE Based Key Encapsulation with Short Ciphertexts"
12:30 – 14:00	Lunch: specialty from Valdres in Buskerud
14:00 – 15:30	<p>Session 3: Documents and Authorship <i>Session Chair: Pierangela Samarati</i></p> <ul style="list-style-type: none"> • Xiaozhu Meng, Barton Miller and Kwang-Sung Jun. "Identifying Multiple Authors in a Binary Program" • Herve Chabanne, Rodolphe Hugel and Julien Keuffer. "Verifiable Document Redacting" • Bander Alsulami, Edwin Dauber, Richard Harang, Spiros Mancoridis and Rachel Greenstadt. "Source Code Authorship Attribution using Long Short-Term Memory Based Networks"
14:00 – 15:30	<p>Session 4: Analysis of Security Protocols <i>Session Chair: Peter Ryan</i></p> <ul style="list-style-type: none"> • Ivan Gazeau and Steve Kremer. "Automated analysis of equivalence properties for security protocols using else branches"

ESORICS 2017 Conference Programme

	<ul style="list-style-type: none"> • Cas Cremers, Martin Dehnel-Wild and Kevin Milner. “Secure Authentication in the Grid: A formal analysis of DNP3: SAV5” • Matthew Bauer, Rohit Chadha and Mahesh Viswanathan. “Modular Verification of Protocol Equivalence in the Presence of Randomness”
15:30 – 16:00	Coffee break: coffee and cake
16:00 – 17:30	Session 5: Threat Analysis <i>Session chair: Sushil Jajodia</i> <ul style="list-style-type: none"> • Juan E. Rubio, Cristina Alcaraz and Javier Lopez. “Preventing Advanced Persistent Threats in Complex Control Networks# • Alexandru G. Bardas, Sathya C. Sundaramurthy, Xinming Ou and Scott A. Deloach. “MTD CBITS: Moving Target Defense for Cloud-Based IT Systems” • Maxime Audinot, Sophie Pinchinat and Barbara Kordy. “Is my attack tree correct?”
16:00 – 17:30	Session 6: Side Channels and data leakage <i>Session Chair: Paul Syverson</i> <ul style="list-style-type: none"> • Kai Engelhardt. “A Better Composition Operator for Quantitative Information Flow Analyses” • Mordechai Guri, Yosef Solewicz, Andrey Daidakulov and Yuval Elovici. “Acoustic Data Exfiltration from Speakerless Air-Gapped Computers via Covert Hard-Drive Noise” • Moritz Lipp, Daniel Gruss, Michael Schwarz, David Bidner, Clémentine Maurice and Stefan Mangard. “Practical Keystroke Timing Attacks in Sandboxed JavaScript”
17:30 – 20:00	Aperitiv in Gamle Museet
TUESDAY / SEP 12	
09:00 – 10:00	Keynote 2: Paul Syverson “The Once and Future Onion” <i>Session Chair: Einar Snekkenes</i>
10:00 – 10:30	Group photo and Coffee break: coffee and fruit
10:30 – 12:00	Session 7: Vulnerabilities and Malware <i>Session Chair: Nora Cuppens- Boulahia</i> <ul style="list-style-type: none"> • Lorenzo Bordonni, Mauro Conti and Riccardo Spolaor. “Mirage: Toward a Stealthier and Modular Malware Analysis Sandbox for Android” • Siqi Ma, Ferdian Thung, David Lo, Cong Sun and Robert Deng. “VuRLE: Automatic Vulnerability Detection and Repair by Learning from Examples” • Kathrin Grosse, Nicolas Papernot, Praveen Manoharan, Backes Michael and Patrick McDaniel. “Adversarial Examples for Malware Detection”
10:30 – 12:00	Session 8: Privacy in Systems <i>Session Chair: Sibylle Froschle</i>

ESORICS 2017 Conference Programme

	<ul style="list-style-type: none"> • Berk Gulmezoglu, Andreas Zankl, Thomas Eisenbarth and Berk Sunar. “PerfWeb: How to Violate Web Privacy with Hardware Performance Events” • Iraklis Symeonidis, Abdelrahman Aly, Mustafa Asan Mustafa, Bart Mennink, Siemen Dhooghe and Bart Preneel. “SePCAR: A Secure and Privacy-enhancing Protocol for Car Access Provision” • Philipp Morgner, Christian Müller, Matthias Ring, Björn Eskofier, Christian Riess, Frederik Armknecht and Zinaida Benenson. “Privacy Implications of Room Climate Data”
12:00 – 13:30	Lunch: specialty from Gårsand in Vestfold
13:30 – 15:00	<p>Session 9: Network security <i>Session Chair: Javier Lopez</i></p> <ul style="list-style-type: none"> • Rajib Ranjan Maiti, Sandra Siby, Ragav Sridharan and Nils Ole Tippenhauer. “Link-Layer Device Type Classification on Encrypted Wireless Traffic with COTS Radios” • Soyoung Kim, Sora Lee, Geumhwan Cho, Muhammad Ejaz Ahmed, Jaehoon Paul Jeong and Hyounghick Kim. “Preventing DNS amplification attacks using the history of DNS queries with SDN” • Jacqueline Brendel and Marc Fischlin. “Zero Round-Trip Time for the Extended Access Control Protocol”
13:30 – 15:00	<p>Session 10: Controlling Access <i>Session Chair: Marina Blanton</i></p> <ul style="list-style-type: none"> • Panagiotis Papadopoulos, George Christou, Giorgos Vasiliadis, Evangelos Markatos and Sotiris Ioannidis. “No sugar but all the taste! Memory Encryption without Architectural Support” • James Alderman, Naomi Farley and Jason Crampton. “Tree-based Cryptographic Access Control” • Swarup Chandra, Vishal Karande, Zhiqiang Lin, Latifur Khan, Murat Kantarcioglu and Bhavani Thuraisingham. “Securing Data Analytics on SGX With Randomization”
15:00 – 15:30	Coffee break: coffee and cake
15:30 – 17:00	<p>Session 11: Information Flow <i>Session Chair: Heiko Mantel</i></p> <ul style="list-style-type: none"> • Musard Balliu, Daniel Schoepe and Andrei Sabelfeld. “We are Family: Relating Information-Flow Trackers” • Weijie Liu, Debin Gao and Mike Reiter. “On-Demand Time Blurring to Support Side-Channel Defense” • Abhishek Bichhawat, Vineet Rajani, Jinank Jain, Deepak Garg and Christian Hammer. “WebPol: Fine-grained Information Flow Policies for Web Browsers”
15:30 – 17:00	<p>Session 12: Blockchain and social networks <i>Session Chair: Joaquin Garcia-Alfaro</i></p> <ul style="list-style-type: none"> • Amrit Kumar, Clément Fischer, Shruti Tople and Prateek Saxena. “A Traceability Analysis of Monero’s Blockchain”

ESORICS 2017 Conference Programme

	<ul style="list-style-type: none"> • Shi-Feng Sun, Man Ho Au, Joseph Liu and Tsz Hon Yuen. “RingCT 2.0: A Compact Linkable Ring Signature Based Protocol for Blockchain Cryptocurrency Monero” • Foteini Baldimtsi, Dimitrios Papadopoulos, Stavros Papadopoulos, Alessandra Scafuro and Nikos Triandopoulos. “Secure Computation in Online Social Networks”
19:00 – 19:15	Meeting at Gamle museet to walk to Gala Dinner venue
19:30 – 20:00	Aperitiv in Stratos (Youngstorget 2A)
20:00 – 24:00	GALA DINNER in Stratos (Youngstorget 2A)
WEDNESDAY / SEP 13	
09:00 – 10:00	Keynote 3: Sandro Etalle “From Intrusion Detection to Software Design” <i>Session Chair: Dieter Gollmann</i>
10:00 – 10:30	Coffee break: coffee and fruit
10:30 – 12:00	Session 13: Web Security <i>Session Chair: Cormac Herley</i> <ul style="list-style-type: none"> • Iginio Corona, Battista Biggio, Matteo Contini, Luca Piras, Roberto Corda, Mauro Mereu, Guido Mureddu, Davide Ariu and Fabio Roli. “DeltaPhish: Detecting Phishing Webpages in Compromised Websites” • Mario Heiderich, Christopher Späth and Jörg Schwenk. “DOMPurify: Client-Side Protection against XSS and Markup Injection” • Arthur Gervais, Alexandros Filios, Vincent Lenders and Srdjan Capkun. “Quantifying Web Adblocker Privacy”
10:30 – 12:00	Session 14: Cryptographic signatures <i>Session Chair: Nigel Smart</i> <ul style="list-style-type: none"> • Marc Beunardeau, Aisling Connolly, Houda Ferradi, Remi Geraud, David Naccache and Damien Vergnaud. “Reusing Nonces in Schnorr Signatures” • Essam Ghadafi. “More Efficient Structure-Preserving Signatures - Or: Bypassing the Type-III Lower Bounds” • Ahto Buldas, Aivo Kalu, Peeter Laud and Mart Oruaas. “Server-Supported RSA Signatures for Mobile Devices”
12:00 – 13:30	Lunch: specialty from Persgaard in Sandefjord
13:00 – 13:30	Optional: Game of Oslo
13:30 – 15:00	Session 15: Formal techniques <i>Session Chair: Audun Josang</i> <ul style="list-style-type: none"> • Joachim Biskup and Marcel Preuß. “Inference-Proof Updating of a Weakened View Under the Modification of Input Parameters” • Sandrine Blazy, David Pichardie and Alix Trieu. “Verifying Constant-Time Implementations by Abstract Interpretation” • Florian Dewald, Heiko Mantel and Alexandra Weber. “AVR Processors as a Platform for Language-Based Security”
13:30 – 15:00	Session 16: Privacy and garbled circuits

ESORICS 2017 Conference Programme

	<p><i>Session Chair: Slobodan Petrovic</i></p> <ul style="list-style-type: none">• Manuel Barbosa, Dario Catalano and Dario Fiore. “Labeled Homomorphic Encryption: Scalable and Privacy-Preserving Processing of Outsourced Data”• Raymond K. H. Tai, Jack P. K. Ma, Yongjun Zhao and Sherman S. M. Chow. “Privacy-Preserving Decision Trees Evaluation via Linear Functions”• Yihua Zhang, Marina Blanton and Fattaneh Bayatbabolghani. “Enforcing Input Correctness via Certification in Garbled Circuit Evaluation”
15:00 – 15:30	<p>Coffee break: coffee and cake Game of Oslo Winner Award</p>
15:30 – 17:00	<p>Session 17: Intrusion Detection <i>Session Chair: Sokratis Katsikas</i></p> <ul style="list-style-type: none">• Shohei Miyama and Kenichi Kourai. “Secure IDS Offloading with Nested Virtualization and Deep VM Introspection”• Genki Osada, Kazumasa Omote and Takashi Nishide. “Network Intrusion Detection based on Semi-Supervised Variational Auto-Encoder”• Suryadipta Majumdar, Yosr Jarraya, Momen Oqaily, Amir Alimohammadifar, Makan Pourzandi, Lingyu Wang and Mourad Debbabi. “LeaPS: Learning-Based Proactive Security Auditing for Clouds”
15:30 – 17:00	<p>Session 18: Cryptographic Applications II <i>Session Chair: Björn Tackmann</i></p> <ul style="list-style-type: none">• David Leslie, Chris Sherfield and Nigel Smart. “Multiple Rate Threshold FlipThem”• Sam L. Thomas, Tom Chothia and Flavio D. Garcia. “Stringer: Measuring the Importance of Static Data Comparisons to Detect Backdoors and Undocumented Functionality”• Kotoko Yamada, Nuttapong Attrapadung, Keita Emura, Goichiro Hanaoka and Keisuke Tanaka. “Generic Constructions for Fully Secure Revocable Attribute-Based Encryption”