



MONDAY, SEPTEMBER 10TH

09:00-10:15 plenary session
AUDITORIUM

- Welcome and opening
- Invited Talk: Mind the Gap: Smart Phone Security and Privacy in Theory and Practice by Ahmad-Reza Sadeghi

10:45-12:45 parallel sessions
AUDITORIUM

- Session 1A: Security and data protection in real systems** (chair: Amir Herzberg)
- Modeling and Enhancing Android's Permission System by Eili Fragaiki, Lujo Bauer, Limin Jia and David Oswald
 - Hardening Access Control and Data Protection in GFS-like File Systems by James Kelley, Roberto Tamassia and Nikos Triandopoulos
 - Attack of the Clones: Detecting Cloned Applications on Android Markets by Jonathan Crussell, Clint Gähler and Hao Chen
 - Boosting the Permissiveness of Dynamic Information-Flow Tracking by Testing by Amar Birgison, Daniel Heidin and André Sabelfeld

ROOM 27

- Session 1B: Formal models for cryptography and access control** (chair: Lujo Bauer)
- Effective Symbolic Protocol Analysis via Equational Irreducibility Conditions by Sertar Erdar, Santiago Escobar, Deepak Kapur, Zhiqiang Lu, Christopher Lynch, Catherine Meadows, Jose Meesequr, Palith Nanrendran, Sorin Sărlăuș and Rafal Sasse
 - Decoding Epistemic and Strategic Properties of Cryptographic Protocols by Henning Schnorr
 - Satisfiability and Feasibility in a Relationship-based Workflow Authorization Model by Aif Khan and Philip Fong
 - Deciding Security for a Fragment of ASLan by Sebastian A. Mödersheim

14:15-15:45 parallel sessions
AUDITORIUM

- Session 2A: Security and privacy in mobile and wireless networks** (chair: Roberto Di Pietro)
- A Probabilistic Framework for Localization of Attackers in MANETs by Massimiliano Albanese, Alessandro De Benedictis, Sachit Jaiswal and Paolo Strakanov
 - Robust Probabilistic Fake Packet Injection for Receiver-Location Privacy in WSN by Ruben Rios, Jorge Cuellar and Javier Lopez
 - Privacy-Aware Message Exchanges for Geographically-Routed Human Movement Networks by Adam Aviv, Michal Sheer, Matt Blaze and Jonathan Smith

ROOM 27

- Session 2B: Counteracting Man-in-the-Middle attacks** (chair: Lujo Bauer)
- Trust No One Else: Detecting MITM Attacks Against SSL/TLS Without Third-Parties by Italo Dacosta, Mustaque Ahmad and Patrick Traynor
 - X509 Forensic: Detecting and Localizing the SSL/TLS Man-in-the-middle by Rajih Hach, Thomas Riedmair, Niko Kemmerhuber and Georg Carle
 - A Practical Man-in-the-Middle Attack on Signal-based Key Generation Protocols by Simon Eder, Martin Strömmer, Matthias Wilhelm and Ivan Martinovic

16:15-17:45 parallel sessions
AUDITORIUM

- Session 3A: Network security** (chair: Ivan Martinovic)
- The Silence of the LANs: Efficient Leakage Resilience for IPsec VPNs by Ahmad-Reza Sadeghi, Stefan Scholz and Vijay Varadharajan
 - Security of Patched DNS by Amir Herzberg and Haya Shulman
 - Revealing Abuses of Channel Assignment Protocols in Multi-Channel Wireless Networks: An Investigation Logic Approach by Qijun Gu, Kyle Jones, Wanyu Zang, Meng Yu and Peng Liu

ROOM 27

- Session 3B: Users privacy and anonymity** (chair: Einar Skeknesen)
- Exploring Linkability of User Reviews by Mahad Almahair and Gene Tsudik
 - Formal Analyses of Privacy in an EHealth Protocol by Weijiang Dong, Hugo Jonker and Jun Pang
 - PROVATUS: Wallet-Friendly Privacy Protection for Smart Meters by Jinkyu Koo, Xiaojun Lin and Saurabh Bagchi

TUESDAY, SEPTEMBER 11TH

09:15-10:15 plenary session
AUDITORIUM

- Invited Talk: Computer-Aided Cryptographic Proofs and Designs by Gilles Barthe

10:45-12:45 parallel sessions
AUDITORIUM

- Session 4A: Location privacy** (chair: Keith Frikken)
- SHARP: Private Proximity Test and Secure Handshake with Cheat-Proof Location Tags by Yao Zheng, Ming Wu, Wenjing Lou and Y. Thomas Hou
 - Secure Proximity Detection for NFC Devices based on Ambient Sensor Data by Zippora Halevi, Di Ma, Nitish Saxena and Tom Yan
 - Enhancing Location Privacy for Electric Vehicles (at the Right Time) by Joseph Liu, Men Ho Au, Willy Susilo and Jianyong Zhou
 - Design and implementation of a Terrorist Fraud Resilient Distance Bounding System by Anshun Rangarathnan, Niko Ole Tippenhauer, Boris Skovic, Davi Siqueira and Stefan Capkun

ROOM 27

- Session 4B: Voting protocols and anonymous communication** (chair: Mirek Kutylovski)
- Applying Overblat to Blind Ballot Copying in the Helios Internet Voting System by Yo Desmet and Pymon Chaidos
 - Defining Privacy for Weighted Votes, Single and Multi-Voter Coercion by Janvik Dreier, Pascal Lafourcade and Yasuke Leifonech
 - TorScan: Tracing Long-lived Connections and Differential Scanning Attacks by Alex Biryukov, Ivan Pastugayev and Rafi Philip Weinmann
 - Introducing the glib Open Source Framework for Mix Implementations by Kar-Peter Fuchs, Dominik Herrmann and Hannes Federrath

14:15-15:45 parallel sessions
AUDITORIUM

- Session 5A: Private computation in cloud systems** (chair: Emiliano De Cristofaro)
- Secure and Efficient Outsourcing of Sequence Comparisons by Marina Blanton, Mahal J. Alallah, Keith B. Frikken and Qutubeh Malluhi
 - Third-Party Private TFA Evaluation on Encrypted Files in the Cloud by Lei Wu and Michael Reiter
 - New Algorithms for Secure Outsourcing of Modular Exponentiations by Xiaodong Chen, Jin Li, Jianfeng Ma, Qiang Tang and Wenjing Lou

ROOM 27

- Session 5B: Formal security models** (chair: Gilles Barthe)
- Towards Symbolic Encryption Schemes by Naveed Ahmed, Christian Damsgaard Jensen and Erik Zennaro
 - Decision Procedures for Simultability by Charanjit Jutla and Anam Ray
 - Model-Checking Bimodal-based Information Flow Properties for Infinite State Systems by Deepak D'Souza and K. R. Raghavhara

16:15-17:45 parallel sessions
AUDITORIUM

- Session 6A: Identity based encryption and group signature** (chair: Joachim Posegga)
- Identity-Based Trait-Tracking with Short Private Key and Short Ciphertext by Fuchun Gu, Yi Mu and Willy Susilo
 - Identity-Based Encryption with Master Key-Dependent Message Security and Leakage-Resilience by David Galindo, Javier Hernandez and Jorge Villar
 - Unique Group Signatures by Matthew Franklin and Halim Zhang

ROOM 27

- Session 6B: Authentication** (chair: Nora Cuppens)
- Relations among Notions of Privacy for RFID Authentication Protocols by Daitsuke Moriyama, Shin Ichiro Matsuo and Miyako Okubo
 - PEAR(Y)2: Privacy-Enhanced Anonymous Authentication with Reputation and Revocation by Kin Hing Yu, Tsz Hon Yuen, Sherman S.M. Chow, S.M. Yu and Lucas S.K. Hui
 - Diamonding Glass and Glass Eliza by Flavio D. Garcia, Gerhard de König Gans, Rolf Verdut and Miroslav Matic

WEDNESDAY, SEPTEMBER 12TH

09:00-10:15 plenary session
AUDITORIUM

- Invited Talk: Integrity of Storage and Computations in the Cloud by Christian Cachin

10:45-12:45 plenary session
AUDITORIUM

- Session 7: Encryption key and password security** (chair: Joaquin Garcia-Alfaro)
- Evaluation of Standardized Password-based Key Derivation against Parallel Processing Platforms by Markus Dürmuth, Tim Güneis, Markus Kasper, Christof Paar, Tolga Yalcin and Rafi Zimmerman
 - Beyond eCK: Perfect Forward Secrecy under Actor Compromise and Ephemeral-Key Revocation by Cas Cremers and Michele Frix
 - Bleichenbacher's Attack Strikes Again: Breaking PKCS#1 v1.5 in XML Encryption by Tibor Jager, Sebastian Schnitzler and Juraj Somorovsky
 - On The Security of Password Manager Database Formats by Paolo Gasli and Kasper Rasmussen

14:15-15:45 plenary session
AUDITORIUM

- Session 8: Malware and phishing** (chair: Frédéric Cuppens)
- Scalable Telemetry Classification for Automated Malware Detection by Jack Stokes, John Platt, Helen Wang, Jue Fuaulther, Jonathan Kiefer, Mady Marinescu, Anil Thomas and Marius Gheorghescu
 - Abstraction-based Malware Analysis Using Rewriting and Model Checking by Philippe Beaumont, Isabelle Gracia and Jian-Yue Mao
 - Detecting Phishing Emails the Natural Language Way by Rakesh Verma, Narasimha Shaashtri and Nabil Hossain

16:15-17:45 plenary session
AUDITORIUM

- Session 9: Software security** (chair: Dieter Gollmann)
- JVM-Portable Sandboxing of Java's Native Library by Mengqiao Sun and Gang Tan
 - CodePat: Application-transparent Isolation of Libraries with Tightly Program Interactions by Yongzheng Wu, Sai Sathyanarayanan Venkataraman, Roland Yap and Zhenkai Liang
 - SocialImpact: Systematic Analysis of Underground Social Dynamics by Ziming Zhao, Gal-Joon Ahn, Hongrui Hu and Deshpinder Mahi

GRAPHIC DESIGN: PIERRE-ANDRÉ LAFITTE - IRT

