



MONDAY, SEPTEMBER 10TH

09:00-10:15
AUDITORIUM

plenary session

- 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
AUDITORIUM

parallel sessions

- Session 1A: Security and data protection in real systems (chair: Amir Herzberg)**
- Modeling and Enhancing Android's Permission System by *Elli Fragkaki, Lujo Bauer, Limin Jia and David Swasey*
 - 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 Gibler and Hao Chen*
 - Boosting the Permissiveness of Dynamic Information-Flow Tracking by Testing by *Arnar Birgisson, Daniel Hedin and Andrei Sabelfeld*

ROOM 27

Session 1B: Formal models for cryptography and access control (chair: Luigi Mancini)

- Effective Symbolic Protocol Analysis via Equational Irreducibility Conditions by *Serdar Erbatur, Santiago Escobar, Deepak Kapur, Zhiqiang Liu, Christopher Lynch, Catherine Meadows, Jose Meseguer, Paliath Narendran, Sonia Santiago and Ralf Sasse*
- Deciding Epistemic and Strategic Properties of Cryptographic Protocols by *Henning Schnoor*
- Satisfiability and Feasibility in a Relationship-based Workflow Authorization Model by *Arif Khan and Philip Fong*
- Deciding Security for a Fragment of ASLan by *Sebastian A. Mödersheim*

14:15-15:45
AUDITORIUM

parallel sessions

- 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, Alessandra De Benedictis, Sushil Jajodia and Paulo Shakarian*
 - 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, Micah Sherr, 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*
- X.509 Forensics: Detecting and Localising the SSL/TLS Man-in-the-middle by *Ralph Holz, Thomas Riedmaier, Nils Kammenhuber and Georg Carle*
- A Practical Man-In-The-Middle Attack on Signal-based Key Generation Protocols by *Simon Eberz, Martin Strohmaier, Matthias Wilhelm and Ivan Martinovic*

16:15-17:45
AUDITORIUM

parallel sessions

- Session 3A: Network security (chair: Ivan Martinovic)**
- The Silence of the LANs: Efficient Leakage Resilience for IPsec VPNs by *Ahmad-Reza Sadeghi, Steffen Schulz 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 Snekkenes)

- Exploring Linkability of User Reviews by *Mishari Almishari and Gene Tsudik*
- Formal Analysis of Privacy in an eHealth Protocol by *Naipeng Dong, Hugo Jonker and Jun Pang*
- PRIVATUS: Wallet-Friendly Privacy Protection for Smart Meters by *Jinkyu Koo, Xiaojun Lin and Saurabh Bagchi*

WEDNESDAY, SEPTEMBER 12TH

09:15-10:15
AUDITORIUM

plenary session

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

10:45-12:45
AUDITORIUM

parallel sessions

- Session 4A: Location privacy (chair: Keith Frikken)**
- SHARP: Private Proximity Test and Secure Handshake with Cheat-Proof Location Tags by *Yao Zheng, Ming Li, Wenjing Lou and Y. Thomas Hou*
 - Secure Proximity Detection for NFC Devices based on Ambient Sensor Data by *Tzipora Halevi, Di Ma, Nitesh Saxena and Tuo Xiang*
 - Enhancing Location Privacy for Electric Vehicles (at the right time) by *Joseph Liu, Man Ho Au, Willy Susilo and Jianying Zhou*
 - Design and Implementation of a Terrorist Fraud Resilient Distance Bounding System by *Aarjhan Ranganathan, Nils Ole Tippenhauer, Boris Skoric, Dave Singelee and Srđjan Capkun*

ROOM 27

Session 4B: Voting protocols and anonymous communication (chair: Mirek Kutylowski)

- Applying Divertibility to Blind Ballot Copying in the Helios Internet Voting System by *Yvo Desmedt and Pyrros Chaidos*
- Defining Privacy for Weighted Votes, Single and Multi-Voter Coercion by *Jannik Dreier, Pascal Lafourcade and Yassine Lakhnech*
- TorScan: Tracing Long-lived Connections and Differential Scanning Attacks by *Alex Biryukov, Ivan Pustogarov and Ralf Philipp Weinmann*
- Introducing the gMix Open Source Framework for Mix Implementations by *Karl-Peter Fuchs, Dominik Herrmann and Hannes Federrath*

14:15-15:45
AUDITORIUM

parallel sessions

- Session 5A: Private computation in cloud systems (chair: Emiliano De Cristofaro)**
- Secure and Efficient Outsourcing of Sequence Comparisons by *Marina Blanton, Mikhail J. Atallah, Keith B. Frikken and Qutaibah Malluhi*
 - Third-Party Private DFA Evaluation on Encrypted Files in the Cloud by *Lei Wei and Michael Reiter*
 - New Algorithms for Secure Outsourcing of Modular Exponentiations by *Xiaofeng 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 Zenger*
- Decision Procedures for Simulatability by *Charanjit Jutla and Amab Roy*
- Model-Checking Bisimulation-based Information Flow Properties for Infinite State Systems by *Deepak D Souza and K. R. Raghavendra*

16:15-17:45
AUDITORIUM

parallel sessions

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

ROOM 27

Session 6B: Authentication (chair: Nora Cuppens)

- Relations among Notions of Privacy for RFID Authentication Protocols by *Daisuke Moriyama, Shin'ichiro Matsuo and Miyako Ohkubo*
- PE(AR)²: Privacy-Enhanced Anonymous Authentication with Reputation and Revocation by *Kin Ying Yu, Tsz Hon Yuen, Sherman S.M. Chow, S.M. Yiu and Lucas C.K. Hui*
- Dismantling iClass and iClass Elite by *Flavio D. Garcia, Gerhard de Koning Gans, Roel Verdult and Milosch Meriac*

TUESDAY, SEPTEMBER 11TH

09:00-10:15
AUDITORIUM

plenary session

- Invited Talk:** Integrity of storage and computations in the cloud by *Christian Cachin*

10:45-12:45
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 Güneysu, Markus Kasper, Christof Paar, Tolga Yalcin and Ralf Zimmermann*
 - Beyond eCK: Perfect Forward Secrecy under Actor Compromise and Ephemeral-Key Reveal by *Cas Cremers and Michele Feltz*
 - Bleichenbacher's Attack Strikes Again: Breaking PKCS#1 v1.5 in XML Encryption by *Tibor Jager, Sebastian Schinzel and Juraj Somorovsky*
 - On The Security of Password Manager Database Formats by *Paolo Gasti and Kasper Rasmussen*

14:15-15:45
AUDITORIUM

- Session 8: Malware and phishing (chair: Frédéric Cuppens)**
- Scalable Telemetry Classification for Automated Malware Detection by *Jack Stokes, John Platt, Helen Wang, Joe Faulhaber, Jonathan Keller, Mady Marinescu, Anil Thomas and Marius Gheorghescu*
 - Abstraction-based Malware Analysis Using Rewriting and Model Checking by *Philippe Beaucamps, Isabelle Gnaedig and Jean-Yves Marion*
 - Detecting Phishing Emails the Natural Language Way by *Rakesh Verma, Narasimha Shashidhar and Nabil Hossain*

16:15-17:45
AUDITORIUM

- Session 9: Software security (chair: Dieter Gollmann)**
- JVM-Portable Sandboxing of Java's Native Libraries by *Mengtao Sun and Gang Tan*
 - Codejail: Application-transparent Isolation of Libraries with Tight Program Interactions by *Yongzheng Wu, Sai Sathyanarayan Venkatraman, Roland Yap and Zhenkai Liang*
 - SocialImpact: Systematic Analysis of Underground Social Dynamics by *Ziming Zhao, Gail-Joon Ahn, Hongxin Hu and Deepinder Mahi*

