2010 Eighth Annual International Conference on Privacy, Security and Trust

(PST 2010)

Ottawa, Canada
17 – 19 August 2010
Tuesday, August 17

17:30 - 19:30

**Posters: Posters**

**Co-Located Physical-Layer Network Coding to Mitigate Passive Eavesdropping**
Michael Hay (Carleton University, Canada); Basil Saeed (Carleton University, Canada); Chung-Horng Lung (Carleton University, Canada); Anand Srinivasan (Carleton University, Canada)
pp. 1-2

**Ray – A Secure Micro Kernel Architecture**
Stefan Nuernberger (CASED - Center for Advanced Security Research Darmstadt, Germany); Thomas Feller (CASED - Center for Advanced Security Research Darmstadt, Germany); Sorin A. Huss (CASED - Center for Advanced Security Research Darmstadt, Germany)
pp. 3-6

Wednesday, August 18

10:30 - 12:00

**S1: Network Forensics Analysis**

**Method Ontology for Intelligent Network Forensics Analysis**
Sherif Saad (University of Victoria, Canada); Issa Traore (University of Victoria, Canada)
pp. 7-14

**Detection, Correlation, and Visualization of Attacks Against Critical Infrastructure Systems**
Linda Briesemeister (SRI International, USA); Steven Cheung (SRI International, USA); Ulf Lindqvist (SRI International, USA); Alfonso Valdes (SRI International, USA)
pp. 15-22

**Achieving Critical Infrastructure Protection through the Interaction of Computer Security and Network Forensics**
Ray Hunt (University of Canterbury, New Zealand); Jill Slay (University of South Australia, Australia)
pp. 23-30
On the Analysis of the Zeus Botnet Crimeware Toolkit
Hamad Binsalleeh (Concordia University, Canada); Thomas Ormerod (Master Student, Canada); Amine Boukhtouta (Concordia University, Canada); Prosenjit Sinha (Concordia University, Canada); Amr Youssef (Concordia University, Canada); Mourad Debbabi (Concordia University, Montreal, Canada); Lingyu Wang (Concordia University, Canada)
pp. 31-38

14:00 - 15:30

S2: Security Protocols and Architectures

On the Representation and Verification of Cryptographic Protocols in a Theory of Action
James Delgrande (Simon Fraser University, Canada); Aaron Hunter (Simon Fraser University, Canada); Torsten Grote (Simon Fraser University, Canada)
pp. 39-45

J3: High Payload Histogram Neutral JPEG Steganography
Mahendra Kumar (University of Florida, USA); Richard E. Newman (University of Florida, USA)
pp. 46-53

Design of Distributed Security Architecture for Multihop WiMAX Networks
Perumalraja Rengaraju (Carleton University, Canada); Chung-Horng Lung (Carleton University, Canada); Anand Srinivasan (Carleton University, Canada)
pp. 54-61

Security Advances and Challenges in 4G Wireless Networks
Nabil Seddigh (Solana Networks, Canada); Biswajit Nandy (Solana Networks, Canada); Rupinder Makkar (Carleton University, Canada); Jean-Francois Beaumont (Defence Research and Development Canada - Ottawa, Canada)
pp. 62-71

T1: Trust

The Relationship of Trust, Demand, and Utility: Be More Trustworthy, Then I Will Buy More
Amirali Salehi-Abari (Carleton University, Canada); Tony Richard White (Carleton University, Canada)
pp. 72-79

Assessing Trustworthiness of Nodes to Enhance Performance in Mobile Ad hoc Networks
Sanat Bista (University of Bradford, United Kingdom); Keshav Dahal (University of Bradford, United Kingdom); Peter Cowling (University of Bradford, United Kingdom); Aziz Bouras (Université Lumière Lyon 2, France)
pp. 80-87
Trust-Aware Monitoring Scheme for WiMax Networks
Haidar Safa (American University of Beirut, Lebanon); Farah Abu Shahla (American University of Beirut, Lebanon)
pp. 88-95

Vampire Bats: Trust in Privacy
Tracy Ann Kosa (University of Ontario Institute of Technology, Canada)
pp. 96-102

16:00 - 17:50

P1: Privacy

Towards A Privacy Preserving Policy Based Infrastructure for Social Data Access To Enable Scientific Research
Palanivel Andiappan Kodeswaran (University of Maryland Baltimore County, USA); Evelyne Viegas (Microsoft Research, USA)
pp. 103-109

A New Perspective of Privacy Protection: Unique Distinct l-SR diversity
Yunli Wang (National Research Council Canada, Canada); Yan Cui (National Research Council Canada, Canada); Liqiang Geng (National Research Council Canada, Canada); Hongyu Liu (National Research Council Canada, Canada)
pp. 110-117

Analysis of Privacy Impact Assessments within Major Jurisdictions
David Tancock (HP Labs, United Kingdom); Siani Pearson (HP Labs, United Kingdom); Andrew Charlesworth (Bristol University, United Kingdom)
pp. 118-125

Efficient Privacy Preserving Reputation Protocols Inspired by Secure Sum
Omar Hasan (INSA Lyon, France); Elisa Bertino (Purdue University, USA); Lionel Brunie (INSA de LYON, France)
pp. 126-133

Social Networks for Health Care: Addressing Regulatory Gaps with Privacy-by-Design
James Williams (University of Victoria, Canada); Jens Weber (University of Victoria, Canada)
pp. 134-143

S3: Identity and Access Management

Transaction Signing in Applications Using Identity Federation
Paul Rabinovich (Exostar LLC, USA)
pp. 144-149

On Achieving a Digital Identity Management System with Support for Non-Transferability
Brent Carrara (University of Ottawa, Canada); Carlisle Adams (University of Ottawa, Canada)
pp. 150-159

Risk Analysis in Access Control Systems
Ji Ma (Université du Québec en Outaouais, Canada); Kamel Adi (University of Quebec in Outaouais, Canada); Mohamed Mejri (Laval University, Canada); Luigi Logrippo (Universite de Quebec a l'Outaouais, Canada)
pp. 160-166

Secure Architecture for RFID Enabled Supply Chain Hierarchy
Nauman Abdullah (NUST, Pakistan); Muhammad Arif Wahla (National University of Sciences and Technology (NUST), Pakistan)
pp. 167-172
Thursday, August 19

10:30 - 12:00

**S4: Software Security**

*A Model-Driven Penetration Test Framework for Web Applications*

Pulei Xiong (SITE, University of Ottawa, Canada); Liam Peyton (University of Ottawa, Canada)

pp. 173-180

*Lightweight protection against brute force login attacks on web applications*

Carlisle Adams (University of Ottawa, Canada); Guy-Vincent Jourdan (University of Ottawa, Canada); Jean-Pierre Levac (University of Ottawa, Canada); François Prevost (University of Ottawa, Canada)

pp. 181-188

*A New Approach for the Dynamic Enforcement of Web Services Security*

Azzam Mourad (Lebanese American University (LAU), Lebanon); Sara Ayoubi (Lebanese American University (LAU), Lebanon); Hamdi Yahyaoui (Kuwait University, Kuwait); Hadi Otrok (Khalifa University of Science, Technology & Research (KUSTAR), UAE)

pp. 189-196

*Guessing Click-Based Graphical Passwords by Eye Tracking*

Daniel LeBlanc (Carleton University, Canada); Alain Forget (Carleton University, Canada); Robert Biddle (Carleton University, Canada)

pp. 197-204

14:00 - 15:30

**S5: Biometrics Technologies**

*Keystroke Dynamics: Characteristics and Opportunities*

Heather Crawford (University of Glasgow, United Kingdom)

pp. 205-212

*You are the Key: Generating Cryptographic Keys from Voice Biometrics*

Brent Carrara (University of Ottawa, Canada); Carlisle Adams (University of Ottawa, Canada)

pp. 213-222

*Secure Information Processing with Privacy Assurance – Standard based Design and Development for Biometric Applications*

Bon Sy (Queens College and University Graduate Center/City U. of New York, USA); Adam Ramirez (Queens College, USA); Arun Prakash Kumara Krishnan (Queens College, USA)

pp. 223-230

*Security of Error Correcting Code for Biometric Encryption (critical note)*

Alex Stoianov (Office of the Information and Privacy Commissioner of Ontario, Canada)

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