

2011 Ninth Annual International Conference on Privacy, Security and Trust

(PST 2011)

**Montreal, Quebec, Canada
19 – 21 July 2011**



IEEE Catalog Number: CFP1104F-PRT
ISBN: 978-1-4577-0582-3

Table of Contents

Pseudonymised Communication in Delay Tolerant Networks	1
<i>Naveed Ahmad, Haitham Cruickshank, Zhili Sun and Muhammad Asif</i>	
Trust Bootstrapping Services and Service Providers.....	7
<i>Zainab M. Aljazzaf, Miriam A. M. Capretz and Mark Perry</i>	
Safe Realization of the Generalization Privacy Mechanism	16
<i>Tristan Allard, Benjamin Nguyen and Philippe Pucheral</i>	
The ultimate invasion of privacy: identity theft	24
<i>Esma Aïmeur and David Schönfeld</i>	
Towards machine-assisted formal procedures for the collection of digital evidence	32
<i>Martín Barrere, Gustavo Betarte and Marcelo Rodríguez</i>	
On Re-use of Randomness in Broadcast Encryption.....	36
<i>Paolo Gasti and Alessio Merlo</i>	
Extraction and Comprehension of Moodle's Access Control Model: A case study.....	44
<i>François Gauthier, Dominic Letarte, Thierry Lavoie and Ettore Merlo</i>	
Modelling of security properties in Alloy	52
<i>Lilia Georgieva</i>	
Privacy Data Envelope: Concept and Implementation	55
<i>Mahmoud Ghorbel, Armen Aghasaryan, Stéphane Betgé-Brezen, Marie-Pascale Dupont, Guy-Bertrand Kamga and Sophie Piekarec</i>	
A Trust-based Approach against IP-spoofing Attacks	63
<i>Jesus Gonzalez, Mohd Anwar and James B.D. Joshi</i>	
Improving the Use of Advisor Networks for Multi-Agent Trust Modelling	71
<i>Joshua Gorner, Jie Zhang and Robin Cohen</i>	
I-RBAC: Isolation Enabled Role-Based Access Control	79
<i>Nagajyothi Gunti, Weiqing Sun and Mohammed Niamat</i>	
Transparent Non-Intrusive Multimodal Biometric System For Video Conference Using The Fusion Of Face And Ear Recognition.....	87
<i>Abbas Javadtalab, Laith Abbadi, Mona Omidyeganeh, Carlisle Adams, Shervin Shirmohammadi and Abdulmotaleb El Saddik</i>	
A Hamming Distance-like Filtering in Keystroke Dynamics	93
<i>Yoshihiro Kaneko, Yuji Kinpara and Yuta Shiomi</i>	
Ensuring Tight Computational Security Against Higher-Order DPA Attacks.....	96
<i>Dakshita Khurana and Aditya Gaurav</i>	
Forward Secure Identity-based Key Agreement for Dynamic Groups	102
<i>Nick Mailloux, Ali Miri and Monica Nevins</i>	
UPBA: User-Authenticated Property-Based Attestation	112
<i>Mark Manulis and Marion Steiner</i>	

On the Need for Data Flow Graph Visualization of Forensic Lucid Programs and Encoded Evidence, and their Evaluation by GIPSY	120
<i>Serguei Mokhov, Joey Paquet and Mourad Debbabi</i>	
Delegation of access rights in a privacy preserving access control model	124
<i>Md. Moniruzzaman and Ken Barker</i>	
Improving Security and Usability of Low Cost RFID Tags.....	134
<i>Ali Noman, Sk. Md. Mizanur Rahman and Carlisle Adams</i>	
Model-Based Systems Security Quantification	142
<i>Samir Ouchani, Yosr Jarraya and Otmane Ait Mohamed</i>	
A Probabilistic-Based Approach towards Trust Evaluation using Poisson Hidden Markov Models and Bonus Malus Systems	150
<i>Kevin Ouyang, Binod Vaidya and Dimitrios Makrakis</i>	
Validation of Security for Participant Control Exchanges in Multicast Content Distribution	156
<i>Mohammad Parham and John William Atwood</i>	
Cryptographic Security Models for eHealth P2P Database Management Systems Network	164
<i>Sk. Md. Mizanur Rahman, Md. Mehedi Masud, Carlisle Adams, Khalil El-Khatib, Hussein Mouftah and Eiji Okamoto</i>	
Detecting P2P Botnets through Network Behavior Analysis and Machine Learning	174
<i>Sherif Saad, Issa Traore, Ali Ghorbani, Bassam Sayed, David Zhao, Wei Lu, John Felix and Payman Hakimian</i>	
Data Preprocessing for Distance-based Unsupervised Intrusion Detection	181
<i>Dina Said, Lisa Stirling, Peter Federolf and Ken Barker</i>	
Risk-based Decision Method for Access Control Systems	189
<i>Riaz Ahmed Shaikh, Kamel Adi, Luigi Logrippo and Serge Mankovski</i>	
Advantages of a Non-Technical XACML Notation in Role-Based Models.....	193
<i>Bernard Stepien, Amy Felty and Stan Matwin</i>	
A Diffie-Hellman based Privacy Protocol for Car-to-X Communication	201
<i>Hagen Stübing, Murat Ceven and Sorin A. Huss</i>	
Secure communication with secret sharing in static computer networks with partition in mistrust parties	205
<i>Johannes Viehmann</i>	
Privacy Challenges of Open APIs: Case Location Based Services	213
<i>Alberto Vila Tena and Yrjö Raivio</i>	
General Secure Function Evaluation Using Standard Trusted Computing Hardware	221
<i>Roopa Vishwanathan and Steve Tate</i>	
Beyond Privacy Policies - Assessing Inherent Privacy Risks of Consumer Health Services	229
<i>Jens H. Weber-Jahnke and James Williams</i>	
An Implementation of a Verification Condition Generator for Foundational Proof-Carrying Code ...	238
<i>Jiangong Weng and Amy Felty</i>	

2011 Ninth Annual International Conference on Privacy, Security and Trust

Performance Analysis of QKD Based Key Distribution for IEEE 802.11 Networks.....	246
<i>Shirantha Wijesekera, Xu Huang and Dharmendra Sharma</i>	
Privacy-Preserving Matchmaking For Mobile Social Networking Secure Against Malicious Users ..	252
<i>Qi Xie and Urs Hengartner</i>	
Online Information Privacy: Agent-Mediated Payoff.....	260
<i>Abdulsalam Yassine, Ali Asghar Nazari Shirehjini, Shervin Shirmohammadi and Thomas T.Tran</i>	
RC4 State and Its Applications	264
<i>Qian Yu and Chang N. Zhang</i>	