



Technical Program

Wednesday, October 8, 2017

8:00 – 8:45 Registration

8:45 – 9:00 Conference Opening

9:00 – 10:00 Session 1: Botnet

- **BotGM: Unsupervised Graph Mining to Detect Botnets in Traffic Flows**
Sofiane Lagraa (Inria, France); Jérôme François and Abdelkader Lahmadi (INRIA Nancy Grand Est, France); Marine Minier (LORIA - Université de Lorraine, France); Christian Hammerschmidt and Radu State (University of Luxembourg, Luxembourg)
- **A Cooperation-Aware Virtual Network Function for Proactive Detection of Distributed Port Scanning**
Igor J. Sanz (UFRJ, Brazil); Martin E. Andreoni Lopez (UFRJ, Brazil & UPMC, France); Diogo Mattos (UFRJ & GTA, Brazil); Otto Carlos M. B. Duarte (UFRJ, Brazil)

10:30 – 11:00 break

11:00 – 12:30 Keynote speech

“Cyber security at the service of citizens, organizations and states: issues and future”

Solange Ghernaoui

(Swiss Cybersecurity Advisory & Research Group, University of Lausanne)

12:30 – 14:00 Lunch

14:00 – 14:30 Invited talk

“Cybersecurity Investment in the Context of Critical Infrastructures Protection: a Game Theory Approach”

Dimitri Percia David
(ETH ZURICH)

14:30 – 16:00 Session 2: IOT SECURITY

- **Fake Timing Attack Against Behavioural Tests Used in Embedded IoT M2M Communications**
Valerio Selis and Alan Marshall (University of Liverpool, United Kingdom)
- **An Approach for Secure Edge Computing in the Internet of Things**
Markus Endler (Pontifícia Universidade Católica do Rio de Janeiro, Brazil); Anderson Silva and Rafael Cruz (PUC-Rio, Brazil)
- **A Lightweight IoT Security Protocol**
Mohamed Tahar Hammi (Telecom ParisTech, France); Erwan Livolant (Boost-Conseil & AFNet, France); Patrick Bellot, and Ahmed Serhrouchni (Telecom ParisTech, France); Pascale Minet (INRIA, France)

16:00 – 16:30 break

16:30 – 18:00 Session 3: Security Management 2

- **dynSMAUG: A dynamic security management framework driven by situations**
Romain Laborde, Arnaud Oglaza, François Barrère and Abdelmalek Benzekri (Université Paul Sabatier, France)
- **A Cooperative Approach for a Global Intrusion Detection System for Internet Service Providers**
Renato Souza Silva (UFRJ & Oi, Brazil); Evandro Luiz Cardoso Macedo (UFRJ, Brazil)
- **Collecting and Characterizing a Real Broadband Access Network Traffic Dataset**
Martin E. Andreoni Lopez (UFRJ, Brazil & UPMC, France); Renato Souza Silva (UFRJ & Oi, Brazil); Igor Alvarenga, Gabriel Rebello, Igor J. Sanz, Antonio Lobato, Diogo Mattos, Otto Carlos M. B. Duarte (UFRJ, Brazil); Guy Pujolle (UPMC, France)

Thursday, October 19, 2017

9:00 – 10:30 Keynote speech

A Ranking Based Privilege Model for Privacy in Location Based Services

Michele Nogueira

(Federal University of Parana, Brazil)

10:30 – 11:00 break

11:00 – 12:30 Session 4: Blockchain Applications

- **Bitcoin Transaction: From the Creation to Validation, a Protocol Overview**
Valentin Vallois (Beamap, Sopra Steria group, France), Fouad Amine Guenane (Beamap, Sopra Steria group, France)

- **Securing Virtual Machine Orchestration with Blockchains**
Nikola Bozic (LIP6 and SQUAD, France); Guy Pujolle and Stefano Secci (UPMC, France)
- **Comparative Analysis of Blockchain Technologies and TOR Network Two Faces of the Same Reality**
Joanna Moubarak (USJ, Lebanon); Eric Filiol (ESIEA, France); Maroun Chamoun (Université Saint Joseph, Lebanon)

12:30 – 14:00 Lunch

14:00 – 14:30 Invited talk

“Privacy and Security: Maintaining services in the Cloud”

Thomas Langër

(University of Lausanne, Switzerland)

14:30 – 16:00 Poster session

16:00 – 16:30 Break

16:30 – 18:00 Session 5 – Certificates and Cryptography

- **Identity Based Cryptography (IBC) Based Key Management System (KMS) for Industrial Control Systems**
Zakarya Drias (225 Promenade des Anglais & Schneider Electric, France); Olivier Vogel (Manager, France); Ahmed Serhrouchni (ENST, France)
- **On DGHV and BGV Fully Homomorphic Encryption Scheme**
Khalil Hariss (Lebanese University, Lebanon); Maroun Chamoun (Université Saint Joseph, Lebanon); Abed Ellatif Samhat (Lebanese University, Lebanon)
- **Using Butterfly Keys: a Performance Study of Pseudonym Certificates Requests in C-ITS**
Badis Hammi, Jean-Philippe Monteuis, Houda Labiod, Rida Khatoun, Ahmed Serhrouchni (Telecom ParisTech, France)

20:00 Gala dinner

Friday, October 20, 2017

9:00 – 10:30 Keynote speech

“Blockchain: making money and business from networks and energy: the new Internet age?”

Pascla Urien

(Mines-Telecom, France)

10:30 – 11:00 break

11:00 – 12:30 Session 6: Miscellaneous

- **Magic Always Comes with a Price: Utility Versus Security for Bank Cards**
Nour El Madhoun (UPMC, France); Emmanuel Bertin (Orange Labs, France)
- **Secure and Resilient Scheme for Data Protection in Unattended Wireless Sensor Networks**
Katarzyna Kapusta, Gerard Memmi (Telecom ParisTech, France); Hassan Noura (American University of Beirut, Electrical and Computer Engineering, Lebanon)
- **Multilingual Cyberbullying Detection System: Detecting Cyberbullying in Arabic Content**
Batoul Haidar (USJ, Lebanon); Maroun Chamoun (Université Saint Joseph, Lebanon); Ahmed Serhrouchni (Telecom ParisTech, France)

12:30 – 14:00 Lunch

14:00 – 14:30 Invited talk

“User Profile and Cybersecurity”

Guy Pujolle

(University Pierre & Marie Curie, France)

14:30 – 16:00 Session 7: Cloud Security

- **Side-Channels Beyond the Cloud Edge: New Isolation Threats and Solutions**
Mohammad Mahdi Bazm and Marc Lacoste (Orange Labs, France); Mario Südholt (IMT Atlantique, France); Jean-Marc Menaud (IMT-A & INRIA & LS2N, France)
- **A Ranking Based Privilege Model for Privacy in Location Based Services**
Varun Sharma (University of Delaware, USA), Hassan Noura (American University of Beirut, Electrical and Computer Engineering, Lebanon)

16:00 – 16:30 break

16:30 – 17:30 Ronde table / Closing Conference