

1st Cyber Security in Networking

October 18-20, 2017
Pestana Cobacabana Hotel, Rio de Janeiro, Brazil

<https://csnet2017.dnac.org/>

Program

Wednesday, October 18, 2017

8h00 - 8h45 – Registration

8h45-9h00 Opening

09h00 - 10h00 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 Ra du 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)

10h30 – 11h00 Coffe-Break

Solange Ghernaouti

Swiss Cybersecurity Advisory & Research Group, University of Lausanne
Cyber security at the service of citizens, organizations and states: issues and future

12h30 - 14h00 Lunch

Dimitri Percia David

ETH Zurich

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

14h30 - 16h00 Session 2 – **IoT Security**

A 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 (Pontificia 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 (Institut TELECOM, TELECOM ParisTech, France); Ahmed Serhrouchni (ENST, France); Pascale Minet (INRIA, France)

16h00 - 16h30 Coffe-Break

16h30 - 18h00 Session 3 – **Security Management 2**

dynSMAUG: A dynamic security management framework driven by situations

Romain Laborde (Université Paul Sabatier, France); Arnaud Oglaza (Université de Toulouse & Institut de Recherche en Informatique de Toulouse (IRIT), France); 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 (Universidade Federal do Rio de Janeiro - UFRJ & Oi, Brazil); Evandro Luiz Cardoso Macedo (Universidade Federal do Rio de Janeiro, 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 (UFRJ, Brazil); Gabriel Rebello (UFRJ, Brazil); Igor J. Sanz (UFRJ, Brazil); Antonio Lobato (UFRJ, Brazil); Diogo Mattos (UFRJ, Brazil); Otto Carlos M. B. Duarte (UFRJ, Brazil); Guy Pujolle (UPMC, France)

Thursday October 19, 2017

9h00 – Keynote

Michele Nogueira

Federal University of Parana, Brazil

The cat-and-Mouse Game: Searching for security intelligence in the era of IoT Blockchain

10h30 – 11h00 Coffe-Break

11h00 - 12h30 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, France); Guy Pujolle and Stefano Secci (University Pierre et Marie Curie - Paris 6, France)

Comparative Analysis of Blockchain Technologies and TOR Network Two Faces of the Same Reality

Joa nna Moubarak (USJ, Lebanon); Eric Filiol (ESIEA, France); Maroun Chamoun (Université Saint Joseph, Lebanon)

Thomas Langër

University of Lausanne, Switzerland

Privacy and Security: Maintening services in the Cloud

Poster

16h00 - 16h30 Coffe-Break

16h30 - 18h00 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 Schemes

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 (Télécom ParisTech, France); Jean-Philippe Monteuis (Telecom ParisTech, France); Houda Labiod (TELECOM ParisTech (ex: ENST), France); Rida Khatoun (Telecom ParisTech, France); Ahmed Serhrouchni (ENST, France)

Gala Dinner

Friday October 20, 2017

9h00 – Keynote

Houda Labiod
Mines-Telecom, France
V2V Cybersecurity

10h30 – 11h00 Coffe-Break

11h00 - 12h30 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 (Telecom ParisTech, France); Gerard Memmi (Telcom 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 (ENST, France)

12h30 - 14h00 Lunch

Guy Pujolle

University Pierre and Marie Curie
User Profile and Cybersecurity

14h00 - 15h30 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)

15h30 - 16h00 Coffe-Break

16h00 – 17:00 – **Round table and Closing**