

Talks and schedule

Monday, June 30, 2014

8:30 - 9:00 Registration

9:00 - 9:30 Opening session

9:30 - 11:00 **Technical session 1**

Emerging Infrastructures for Networks and Services

- Trade-off-based Adoption Methodology for Cloud-based Infrastructures and Services (*Radhika Garg, Burkhard Stiller*)
- ESPRESSO: An Encryption as a Service for Cloud Storage Systems (*Seungmin Kang, Bharadwaj Veeravalli, Khin Mi Mi Aung*)
- Adaptive CUSUM Algorithm to Detect Malicious Behaviors in Wireless Mesh Networks (*Juliette Dromard, Rida Khatoun, Lyes Khoukhi*)

11:00 - 11:30 Coffee break

11:30 - 13:00 **Ph.D. Session 1**

Management of Virtualized Network Resources and Functions

- Efficient Management of Virtualized Information-Centric Networks (*Maxim Claeys, Steven Latré, Filip De Turck*)
- Contributions to Efficient Resource Management in Virtual Networks (*Rashid Mijumbi, Juan Luis Gorricho, Joan Serrat*)
- Management and Orchestration of Virtualized Network Functions (*Elisa Maini, Antonio Manzalini*)

13:00 - 14:00 Lunch

14:00 - 15:30 **Ph.D. session 2**

Security Management

- Towards Incentivizing ISPs To Mitigate Botnets (*Qasim Lone, Giovane Moura, Michel van Eeten*)
- Enhancing Network Security: Host Trustworthiness Estimation (*Tomas Jirsik, Pavel Celeda*)

- Outsourcing Mobile Security in the Cloud (*Gaëtan Hurel, Remi Badonnel, Abdelkader Lahmadi, Olivier Festor*)
- Characterizing and Mitigating The DDoS-as-a-Service Phenomenon (*José Jair Santanna, Anna Sperotto*)

15:30 - 16:15 Coffee break and Poster session

Posters

- Network-based Advanced Persistent Threat Attack Detection (*Ibrahim Ghafir, Vaclav Prenosil*)
- Self-healing Mechanisms for Software Defined Networks (*Jose Manuel Sanchez Vilchez, Imen Grida Ben Yahia, Noël Crespi*)
- Dragging Attackers to Honeypots for Effective Analysis of Cybernetic Threats (*Martin Husak, Jan Vykopal*)
- Performance Management in Application-controlled Software Defined Networks (*Jeremias Blendin, David Hausheer*)

16:15 - 17:30 **Educational session**

Where to Publish?

Aiko Pras, University of Twente, The Netherlands

19:00 **Welcome reception**

takes place at the same location as Lunch

Tuesday, July 1, 2014

8:30 - 9:00 Registration

9:00 - 11:00 **Lab 1**

Fast Network Simulation Setup
Lorenzo Saino

11:00 - 11:30 Coffee break

11:30 - 13:00 **Lab 1 (cont.)**

13:00 - 14:00 Lunch

14:00 - 15:30 **Technical session 2**

Experimental Studies for Security Management

- Characterisation of the Kelihos.B Botnet (*Max*

Kerkers, José Jair Santanna, Anna Sperotto)

- A Study of RPL DODAG Version Attacks (*Anthéa Mayzaud, Anuj Sehgal, Remi Badonnel, Isabelle Chrisment, Juergen Schoenwaelder*)
- Toward a Source Detection of Botclouds: a PCA-based Approach (*Hammi Badis, Guillaume Doyen, Rida Khatoun*)

15:30 - 16:00 Coffee break

16:00 - 17:00 **Keynote session**

Modern Security Analytics: Finding a Needle in the Hay Blower

Martin Rehak, principal engineer with Cisco Systems, lecturer at Czech Technical University

17:00 - 18:30 **Ph.D. session 3**

SDN and Content Delivery

- Software Defined Networking to Improve Mobility Management Performance (*Morteza Karimzadeh, Anna Sperotto, Aiko Pras*)
- Future of DDoS Attacks Mitigation in Software Defined Networks (*Martin Vizváry, Jan Vykopal*)
- Towards Decentralized, Energy- and Privacy-aware Device-to-Device Content Delivery (*Leonhard Nobach, David Hausheer*)

Wednesday, July 2, 2014

8:30 - 9:00 Registration

9:00 - 11:00 **Lab 2**

Deploying OpenFlow experiments on the Virtual Wall testbed

Niels Bouten, Maxim Claeys, Jeroen Famaey

11:00 - 11:30 Coffee break

11:30 - 13:00 **Lab 2 (cont.)**

13:00 - 14:00 Lunch

14:30 - 18:00 **Social Events**

Brno - Guided Tour
Beer Tram

20:00 - 23:00 **Conference dinner**
Thursday, July 3, 2014

8:30 - 9:00 Registration

9:00 - 11:00 **Lab 3**

Cybernetic Proving Ground: a Cloud-based Security Research Testbed
Jakub Cegan, Martin Vizvary, Michal Prochazka

11:00 - 11:30 Coffee break

11:30 - 13:00 **Lab 3 (cont.)**

13:00 - 14:00 Lunch

14:00 - 15:30 **Technical session 3**

Monitoring Methods for Quality-of-Service and Security

- Goal-Oriented Monitoring Adaptation: Methodology and Patterns (*Antoine Toueir, Julien Broisin, Michelle Sibilla*)
- Detection of Network Flow Timestamp Reliability (*Martin Zadnik, Erik Sabik, Vaclav Bartos*)
- Enhancing Network Intrusion Detection by Correlation of Modularly Hashed Sketches (*Martin Drasar, Tomas Jirsik, Martin Vizváry*)

15:30 - 16:00 Coffee break

16:00 - 17:00 **Ph.D. Session 4**

Monitoring and Information Sharing

- Next Generation Application-Aware Flow Monitoring (*Petr Velan, Pavel Celeda*)
- A Modular Architecture for Deploying Self-adaptive Traffic Sampling (*Joao Marco Silva, Paulo Carvalho, Solange Rito Lima*)
- Cross-layer Optimization with Real-time Adaptive Dynamic Spectrum Management for Fourth Generation Broadband Access Networks (*Jeremy Van den Eynde, Chris Blondia*)

17:00 **Closing session**
Best paper award

Social Events

Wednesday, July 2

Brno Guided Tour **14:30 - 16:15**

Meeting point: Masaryk Statue, Komenského nám. 2

Join us on a guided tour through the city of Brno which covers the most important sights. You will learn interesting facts from history of Brno, hear legends and feel the unique atmosphere of Brno.

Beer Tram **16:30 - 18:00**

Meeting point: Faculty of Social Studies, Joštova 10

Taste a delicious beer in a special "Pivní Šalina" (Beer Tram). During the ride you will see various neighborhoods of Brno from the point of view of a common citizen of Brno.

Conference Dinner **20:00 - 23:00**

Meeting point: Astronomical Clock, Nám Svobody
Restaurant: Sunset, IBC Centrum, 9th floor, Příkop 4
<http://www.sunset-restaurant.cz/en/>

We meet **at the meeting point at 19:45** from where we take you to the Sunset restaurant. Delicious dinner will be served there, drinks and beautiful view on Brno included.

Please be on time at the meeting points!

Contact to event organizer:
Jan Vykopal, +420 725 879 186

Conference location:

Komenského nám. 2

Conference room:
2nd floor, room 101

Labs room:
1st floor, study room 3
door no.054



<http://www.aims-conference.org/2014/>

AIMS 2014

Program

Brno, Czech Republic, June 30 - July 3, 2014



**Lecture Notes in
Computer Science**

LNCS

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