**ICCCN 2017**

**The 26th International Conference on**

**Computer Communications and Networks**

**July 31 – August 3, 2017**

**Final Program**



****

Workshop Program Overview

|  |
| --- |
|   **August 3 (Thursday) - Workshops**  |
| 7:30am - Registration Desk/Continental Breakfast (Pinnacle Foyer) |
| 08:00 - 12:00  | RM (Pinnacle I)VENITS | RM (Pinnacle II)WiMAN | RM (Pinnacle III)IoTPST |
|  9:45 – 10:15 |  Coffee break |
| 12:00 - 13:30  |  Lunch break |
| 13:30 - 17:00  | RM (Pinnacle I)PSTBT | RM (Pinnacle II)NSAA | RM (Pinnacle III)IioTCom |
| 15:00 – 15:30 |  Coffee break |  |  |

Integrated Workshop Schedule

# Aug 3 (Thursday)

# 8:00-12:00

**VENITS Workshop:**

Chair: Carlos T. Calafate and Francisco Martinez

Welcome

**Workshop Keynote**: Impact of IPv6 on IoV – VoI. Latif Ladid (Université du Luxembourg)

* **QoS-oriented Management of Automobile Cruise Control Processes**

A Adiththan and K Ravindran

* **Disseminating Large Data in Vehicular Ad Hoc Networks**

Dp Tejas

* **An Android ITS Driving Safety Application Based on Vehicle-to-Vehicle (V2V) Communications**

Seilendria Ardityarama Hadiwardoyo, Subhadeep Patra, Carlos Tavares Calafate, Juan-Carlos Cano and Pietro Manzoni

* **Secure and Anonymous Vehicle Access Control System to Traffic-Restricted Urban Areas**

Magdalena Payeras-Capellà, Jordi Castellà-Roca, Macià Mut Puigserver, Alexandre Viejo and Carles Anglès-Tafalla

**Break**

* **Securing PKI Requests for C-ITS systems**

Jean Philippe Monteuuis, Badis Hammi, Eduardo Salles Daniel, Houda Labiod, Rémi Blancher, Erwan Abalea and Brigitte Lonc

* **Dynamic Small Cell Management for Connected Cars Communications**

Julio A. Sanguesa, Johann M. Marquez-Barja, Piedad Garrido and Francisco J. Martinez

* **Bio-inspired on demand routing protocol for Unmanned Aerial Vehicles**

Bahloul Nour El Houda, Boudjit Saadi, Abdennebi Marwen and Boubiche Djallel Eddine

Closing

**WiMAN Workshop:**

Chair: Cuong Pham

Welcome

* **Adaptive Burst Transmission Scheme for Wireless Sensor Networks**

Zeeshan Ansar and Waltenegus Dargie

* **Wireless Interference Prediction for Embedded Health Devices**

Jiangmin Yu, Michael Farcasin and Eric Chan-Tin

* **User Association Algorithm for Throughput Improvement in High-Density Wireless Networks**

Omneya Issa, Ying Ge, Aizaz Chaudhry and Bernard Doray

**Break**

* **Enhanced AODV: Detection and Avoidance of Black Hole Attack in Smart Metering Network**

Md Raqibull Hasan, Yanxiao Zhao, Guodong Wang, Yu Luo and Robb Winter

* **Analysis of Analog Network Coding noise in Multiuser Cooperative Relaying for Spatially Correlated Environment**

Sam Darshi and Samar Shailendra

* **On the Data Aggregation Point Placement in Smart Meter Networks**

Guodong Wang, Yanxiao Zhao, Jun Huang and Robb Winter

**Break**

* **Incremental SDN-Enabled Switch Deployment for Hybrid Software-Defined Networks**

Meitian Huang and Weifa Liang

* **Detecting Byzantine Attacks in Self-Organizable Networks by a Reputation-Based Cooperative Spectrum Sensing**

Francesco Benedetto, Gaetano Giunta, A. Tedeschi and P. Coronas

* **Coverage Algorithms for WiFO: A Hybrid FSO-WiFi Femtocell Communication System**

Yang Zhang, Yu-Jung Chu and Thinh Nguyen

Closing

**IoTPST Workshop:**

Chair: George Rouskas

Welcome

* **Template Attack vs. Stochastic Model: An Empirical Study on the Performances of Profiling Attacks in Real Scenarios**

Hailong Zhang, Yongbin Zhou and Baofeng Li

* **Lightweight Framework for Reliable Job Scheduling in Heterogeneous Clouds**

Muhammed Bello Abdulazeez, Pawel Garncarek and Prudence W.H. Wong

* **A Secure Two-Party Computation Based Privacy-Preserving Smart Metering Scheme**

Haipeng Qu, Wenhong Sun, Xi-Jun Lin, Peng Shang, Xiaoshuai Zhang, Mingjian Jiang, Youxin Fang and Yanyong Zhu

**Break**

* **Equivalence Checking of Java Methods - Toward Ensuring IoT Dependability**

Kozo Okano, Satoshi Harauchi, Toshifusa Sekizawa, Shinpei Ogata and Shin Nakajima

* **Preventing Misuse of Duplicate Certificates in IoT/M2M Systems**

Yu-Hao Hsu and Fuchun Joseph Lin

* **Machine-learning Classifiers for Security in Connected Medical Devices**

Sida Gao and Geethapriya Thamilarasu

**Break**

* **Privacy Risks for Multi-Criteria Collaborative Filtering Systems**

Alper Yargıç and Alper Bilge

* **Security Analysis based on Petri Net for Separation Mechanisms in Smart Identifier Network**

Linyuan Yao, Ping Dong, Xiaojiang Du and Hongke Zhang

* **Augmenting Security of Internet-of-Things Using Programmable Network-Centric Approaches: A Position Paper**

Hammad Iqbal, Jamie Ma, Qing Mu, Venkatesh Ramaswamy, Gabby Raymond, Daniel Vivanco and John Zuena

* **An Overview of Access Control Mechanisms for Internet of Things**

Kewei Sha and Mousa Alramadhan

Closing

# 13:30-17:00

**PSTBT Workshop:**

Chair: Victoria Lemieux

Welcome

* **CoC: Secure Supply Chain Management System based on Public Ledger**

Lei Xu, Lin Chen, Zhimin Gao, Yang Lu and Weidong Shi

* **Long-term Public Blockchain: Resilience against Compromise of Underlying Cryptography**

Masashi Sato and Shin'Ichiro Matsuo

* **Performance Analysis of Private Blockchain Platforms in Varying Workloads**

Suporn Pongnumkul, Chaiyaphum Siripanpornchana and Suttipong Thajchayapong

* **Legally Speaking: Smart Contracts, Archival Bonds, and Linked Data**

Darra Hofman

**Break**

**Workshop Keynote**: BSafe Network: Purpose, Development and Operation

Shin’Ichiro Matsuo (MIT Media Lab)

* **The application of blockchain technology in e-government in China**

Heng Hou

* **Automated labeling of unknown contracts in Ethereum**

Robert Norvill, Beltran Borja Fiz Pontiveros, Irfan Awan, Andrea Cullen and Radu State

* **Semantic Interoperability on a Blockchain: Reducing Uncertainty and Complexity in Value Exchange**

Marek Laskowski and Henry Kim

* **Syscoin: A Peer-to-Peer Electronic Cash System with Blockchain-Based Services for E-Business**

Jagdeep Sidhu

Closing

**NSAA Workshop:**

Chair: Li Yang

Welcome

* **A New Approach to Online, Multivariate Network Traffic Analysis**

Jinoh Kim and Alex Sim

* **A Study on Log Analysis Approaches Using Sandia Dataset**

Mir Mehedi Pritom, Chuqin Li, Bill Chu and Xi Niu

* **The Design of Cyber Threat Hunting Games: A Case Study**

Md Nazmus Sakib Miazi, Mir Mehedi Pritom, Mohamed Shehab, Bill Chu and Jinpeng Wei

**Break**

* **Comparison of Virtualization Algorithms and Topologies for Data Center Networks**

Hanene Ben Yedder, Qingye Ding, Umme Zakia, Zhida Li, Soroush Haeri and Ljiljana Trajkovic

* **Concatenating Unprotected Internet of Things Network Event-Driven Data to Obtain End-User Information**

Rahmira Rufus and Albert Esterline

* **Application of Learning Using Privileged Information(LUPI): Botnet Detection**

Angelo Sapello, Constantin Serban, Ritu Chadha and Rauf Izmailov

**Break**

* **Hands-on Learning for Computer Network Security with Mobile Devices**

Kai Qian, Yong Shi, Lixin Tao and Ying Qian

* **A Secure Mobile Cloud Photo Storage System**

David Schwab, Li Yang, Kathy Winters, Matthew Jallouk, Emile Smith and Adam Claiborne

Closing

**IioTCom Workshop:**

Chair: Ing. Patrick-Benjamin Bök

Welcome

* **A Bridging VPN for Connecting Wireless Sensor Networks to Data Centers**

Hiroaki Hata

* **Fault and Performance Management in Multi-Cloud based NFV using Shallow and Deep Predictive Structures**

Lav Gupta, Mohammed Samaka, Raj Jain, Aiman Erbad, Deval Bhamare and H. Anthony Chan

* **Monotonic Optimization for Power Assignment in Two-Way Cognitive Radio Networks with Shared-band Amplify-and-Forward Relays**

Udit Pareek and Daniel Lee

**Break**

* **New locating method based on improved Niculecu Dv-distance**

Degan Zhang, Yameng Tang and Jie Chen

* **Video Streaming Schemes for Industrial IoT**

Hajime Kanzaki, Kevin Schubert and Nicholas Bambos

* **Analysis of the Scope of Dynamic Power Management in Emerging Server Architectures**

Markus Hähnel, Waltenegus Dargie and Alexander Schill

Closing

Technically Co-Sponsored by



 

Industry Sponsor: Huawei Technologies Co.

