CIoT'16 – Program
2nd Cloudification of the Internet of Things
November 23 – 25, 2016
Paris - France
www.ciot-conference.org

Wednesday, November 23rd 2016

9:00 – 9:15 Welcome and opening conference
General Co-chair: Pr. Yutaka Takahashi, Kyoto University, Japan
Chairman of the program Committee: Pr. Nadjib Aidsaadi, ESIEE Paris, France

9:15 – 10:30 Keynote speaker I
Hakima Chaouchi
(Institut Mines-Telecom, France)
Internet of Things: The Big Picture

10:30 – 11:00 Break

11:00 – 12:30 Session 1 – Services in IoT Cloud
Session chair : Pr. H. Chaouchi - Institut Mines-Telecom, France

- **Microservices in IoT clouds**
Konstantinos Vandikas (Ericsson, Sweden & RWTH Aachen, Germany); Vlasios Tsiatsis (Ericsson, Sweden)

- **A Cloud Computing Architecture for Spectrum Sensing as a Service**
Giuseppe Baruffa, Mauro Femminella, Matteo Pergolesi and Gianluca Reali (University of Perugia, Italy)

- **IoT, Cloud Services, and Big Data: A Comprehensive Pricing Solution**
Mauro Femminella, Matteo Pergolesi and Gianluca Reali (University of Perugia, Italy)

12:30 – 14:00 Lunch

14:00 – 15:30 Session 2 – Experimentations in IoT Cloud
Session chair : Dr. A. Dandoush - ESME Sudria, France

- **Distributed and Flexible Computing Testbed for Edge Cloud Computational Offloading**
Abderrahmen Mtibaa (Texas A&M University, USA); Hend Gedawy (Carnegie Mellon University Qatar, Qatar); Sannan Tariq (Carnegie Mellon University, Qatar); Khaled A. Harras (Carnegie Mellon University, USA)

- **A Full Stack for Quick Prototyping of IoT Solutions**
Daniele Mazzei (University of Pisa, Italy); Giacomo Baldi (Zerynth, Italy); Gabriele Montelisciani and Gualtiero Fantoni (University of Pisa, Italy)

- **Comparison of IoT Platform Architectures: A Field Study based on a Reference Architecture**
Jasmin Guth and Michael Falkenthal (Institute of Architecture of Application Systems, University of Stuttgart, Germany); Uwe Breitenbücher (Universität Stuttgart, Germany); Lukas Reinfurt (Institute of Architecture of Application Systems, University of Stuttgart, Germany); Frank Leymann (Universität Stuttgart, Germany)

15:30 – 16:00 Break

16:00 – 17:30 Session 3 – Optimization of protocols in IoT Cloud
Session chair : Yazid Lyazidi - UPMC, France

- **A Relay-based IEEE 802.11ah network solution for Smart City**
Nurzaman Ahmed and Md. Iftekhar Hussain (North-Eastern Hill University, India)

- **A Protocol for Setting up Ad hoc Mobile Clouds over Spontaneous MANETs: A Proof of Concept**
Bilel Zaghdoudi (Faculty of Science of Tunis, University of El Manar, Tunisia); Hella Kaffel-Ben Ayed (University of Tunis El Manar & University of Manouba, Tunisia); Islem Gnichi (Faculty of Science of Tunis, University of El Manar, Tunis, Tunisia)

- **A hybrid data aggregation scheme for provisioning Quality of Service (QoS) in Internet of Things (IoT)**
Hafizur Rahman, Nurzaman Ahmed and Md. Iftekhar Hussain (North-Eastern Hill University, India)

Thursday, November 24th, 2016

9:15 – 10:30 Keynote speaker II
Steven Martin
(University Paris-Sud, France)
Network of drones: a flying Cloud

10:30 – 11h00 Break

11:00 – 12:30 Session 4 – Security in IoT Cloud
Session chair: Salvatore Costanzo – UPMC, France

- **Limitations of the Pub/Sub Pattern for Cloud Based IoT and Their Implications**
Daniel Happ (TU Berlin, Germany); Adam Wolisz (TUB, Germany)

- **OAuthing: Privacy-enhancing Federation for the Internet of Things**
Paul Fremantle and Benjamin Aziz (University of Portsmouth, United Kingdom)

- **Community-based wireless IoT infrastructure using ubiquitous vending machines**
Yozo Shoji, Kiyohide Nakauchi and Wei Liu (National Institute of Information and Communications Technology, Japan)

12:30 – 14:00 Lunch

14:00 – 15:30 Keynote speaker III
Giovanni Pau
(UCLA, USA)
Internet of Things in the Vehicle

15:30 – 16:00 Break

16:00 – 17:00 Keynote speaker IV
Vincent Champain
(CEO Digital foundry - GE, France)
Internet of Industrial things

17:00 – 18:00 Session 5 – Edge / Mobile Cloud
Session chair: Dr. A. Dandoush - ESME Sudria, France

- **Edge-Fog Cloud: A Distributed Cloud for Internet of Things Computations**
Nitinder Mohan and Jussi Kangasharju (University of Helsinki, Finland)

- **Cognitive Agent Oriented Architecture of Internet-of-Thing Applications in Heterogeneous Clouds of Mobile Edge Computing**
Vikas S Shah (Wipro Technologies, USA)

19:30 – 22:30 Gala dinner

Friday, November 25th, 2016

9:15 – 10:30 Keynote speaker V
Hervé Ganem
(Gemalto, France)
Internet of Thinks : connect, secure, monetize

10:30 – 11:00 Break

11:00 – 12:30 Session 6 – Performance of IoT Cloud
Session chair: Dr. I. Fajjari - Orange Labs, France

- **Performance Analysis of Traffic Classification in an OpenFlow Switch**
Shota Ogasawara and Yutaka Takahashi (Kyoto University, Japan)

- **An SLA-based Resource Allocation for IoT Applications in Cloud Environments**
Anand Singh and Yannis Viniotis (North Carolina State University, USA)

- **Appliance Recognition using AGILASx Dataset for Intrusive Load Monitoring and Machine Learning Approaches**
Marcel Lowell Villanueva (Universitie de Lorraine & Ateneo de Manila University, France); Samuel Matthew Dumlao and Rosula Reyes, S. J. (Ateneo de Manila University, Philippines)

12:30 – 14:00 Lunch

14:00 – 15:00 Keynote speaker VI
Pascal Urien
(Telecom ParisTech, France)
Tamper resistance, secure communications, and storage: three prerequisites for the Internet of Things

15:00 – 15:30 Conference Closing