

CALL FOR WORKSHOP

1st Workshop on Smart Cloud Networks & Systems

SCNS 2014

December 3 – 5, 2014

Paris, France

General Chairs

Otto Carlos Duarte and Guy Pujolle

The Cloud is becoming an enabler for enhanced control and management of IP and telecommunications networks. A rapidly-growing example of this is Software Defined Networking (SDN), in which the underlying tools include virtualisation and “Cloud” technology. However, a new paradigm is beginning to emerge: “Cloud” networks: nano, pico, small, large, super large, and extraordinarily large. Location of virtual machines is a major concern for performance optimisation, energy consumption, reliability, cost, etc. In such distributed global environments, control and adequate security measures are of particular concern, yet these, to date, have been largely overlooked giving rise to numerous attacks and incidents involving cloud and virtualised resources.

The objective of this workshop is to present state-of-the-art solutions for Cloud solutions, and their associated management and orchestration. The first aspect of this conference will cover new control and orchestration solutions. A second aspect relates to the safety and security of applications made available through Cloud technology and solutions. For this reason new concepts such as an “authentication credentials cloud” solution can increase security in network protocols, as well as fixed and mobile applications. A third element that will be covered involves the solutions and inherent challenges involving the relationship between the control plane (hypervisors) and userspace (virtual machines).

Areas of interest include, but are not limited to:

- Cloud networks and Distributed Cloud
- Cloud computing and network virtualization
- Data Center Network Control, Security and Optimization
- Intra-Cloud vs Inter-Cloud Control and Security
- Control and Secure Multi-Tenancy
- SDN: Software-Defined Networking
- Control algorithms using Cloud
- Security, trust and privacy challenges
- Security and control of Mobile Internet applications
- Cloud of Security
- Crowdsourcing and Cloud services
- Security of Virtual Machines
- Virtual firewalls
- Virtual identity management server
- Cyber attacks Cloud-oriented vs Cyber defense Cloud-oriented
- Secure elements for the Cloud
- Payment security and Cloud

Paper Submission:

Submitted papers must represent original material that is not currently under review in any other conference or journal, and has not been previously published. All submissions should be written in English with maximum of eight (8) printed pages (in Two-Column IEEE Conference Format), including text, figures and references. Papers should be submitted through EDAS at <http://edas.info/XXXX>

Best papers will be considered for fast-track publication in the Annals of Telecommunications (Springer, ISI-indexed)

TPC Chairs

- Luís Henrique M. K. Costa (UFRJ, Brazil)
- Kamel Haddadou (Gandi SAS, France)

Program Committee:

- Ahmed Amamou (Gandi SAS, France)
- Ahmed Karmouch (University of Ottawa, Canada)
- Ahmed Serhouchni (Mines-Telecom, France)
- André Santos (UFPE, Brazil)
- Artur Ziviani (LNCC, Brazil)
- Bijan Jabbari (George Mason University, USA)
- Célio Albuquerque (UFF, Brazil)
- Diego Kreutz (UL, Portugal)
- Edmundo Madeira (Unicamp, Brazil)
- Fabio Kon (University of Sao Paulo, Brazil)
- Georg Carle (TUM, Germany)
- Harry Perros (NCSU, USA)
- Heiko Niedermayer (TUM, Germany)
- Herman de Meer, Univ. Of Passau, Germany
- Igor M. Moraes (UFF, Brazil)
- James Won-Ki Hong (KT, Korea)
- Lisandro Zambenedetti Granville (UFRGS, Brazil)
- Luciano Gasparly (UFRGS, Brazil)
- Manel Bourguiba (ANEQ, France)
- Marcelo G. Rubinstein (UERJ, Brazil)
- Marinho Barcellos (UFRGS, Brazil)
- Mathieu Bouet (Thales, France)
- Michel Abdalla (ENS, France)
- Miguel Elias M. Campista (UFRJ, Brazil)
- Nelson Luis S. da Fonseca (Unicamp, Brazil)
- Omar Cherkaoui, UQAM, Canada
- Pascal Urien, Telecom ParisTech, France
- Pedro B. Velloso (UFF, Brazil)
- Philippe Bertin (Orange Labs, France)
- Prosper Chemouil, Orange Labs, France
- Rafael Laufer (Bell Labs, USA)
- Raouf Boutaba (Waterloo University, Canada)
- Shengming Jiang, South China U of Tech., China
- Stefano Secci (UPMC, France)
- Yutaka Takahashi, Kyoto University, Japan
- Wissam Fawaz, Lebanese American U., Lebanon

Key Dates:

Paper Submission Due – May 10, 2014

Paper Review Feedback – July 10, 2014

Final Papers Due – September 15, 2014

For more information visit:

www.scns-workshop.org

Contact for details:

Phone: + 33 7 81 84 90 42

Email: aziza.lounis@dnac.org

