Annals of Telecommunications

Annales des télécommunications

Call for papers

Special Issue on

Cloud Communications and Networking

The networks of the future will be completely virtualized in physical infrastructures – essentially datacenters of varying sizes. Very small datacenters will be located on the periphery of the network, near to the user. This physical infrastructure will be used to support software networks that are tailored to the clients' needs and to those of the applications for which they were generated. The agility of these networks is the main difference with previous-generation networks: it is possible to replace a network in a few minutes, or even a few seconds, and by using automation, in a few milliseconds.

Overall, this new generation of technologies is based on the Cloud, and on virtualization, which also shows the overlap with migration, NFV and Cloud of security.

The NFV standard attaches a great deal of hope to the major simplification which is offered by virtual machines. The Open Platform for NFV (OPNFV) project represents another promising avenue. The OPNFV solution would be Carrier-Grade, integrated, and should give rise to an open-source platform developed by the Linux Foundation.

The contributions should address, but are not limited to, the following research issues/topics:

•	Autoscaling in clouds	•	Mobile Cloud Networking
٠	Cloud capacity planning	٠	Network as a Service
٠	Cloud Federation and Hybrid Cloud	٠	Network Functions Virtualization
	Infrastructure	٠	Network Virtualization
•	Cloud Traffic Characterization and Measurements	•	Quality of Service or Experience (QoS & QoE) in Cloud Services and Networking
•	Cloud Traffic Engineering and Control-Plane Architectures	•	Security, Privacy, and Confidentiality in Cloud Networking
٠	Cloud Networking in 5G	•	Software Defined Networks
•	Data Center Network Management, Reliability, Optimization	•	Storage Area Networks, Optical Interconnect, Fiber Channels
•	Distributed Data Center Architectures and Services: IaaS, PaaS, SaaS	•	Virtual Ethernet Switching, Data Center Bridging
٠	Energy-Efficient Datacenters and Networks	•	Virtualization of Network Equipment Wireless
•	Green Data Centers and Cloud Networking		Data Center
•	Internet Routing of Cloud data		
•	Microservices and Container deployments		

Guest Editors

- Harry Perros, NCSU, USA
- Ioannis Papapanagiotou, Netflix, USA
- Guy Pujolle, UPMC, France

Papers must be written in English and describe original research not published or currently under review by other journals or conferences. The length of the article file should not exceed 35,000 characters including spaces (i.e., around 5,500 words). The manuscripts that are outside the expected length are likely to be rejected. All relevant papers submitted will go through an external review process. Papers published in a conference can be submitted but they should include at least 30% of novel material, and the authors should clearly indicate what is the additional material. Submissions should be sent according to the instructions available at: http://annalsoftelecommunications.wp.mines-telecom.fr/how-to-publish/

The authors can directly submit their paper at: <u>https://www.editorialmanager.com/ante/default.aspx</u> and must select the relevant CfP in "Choose Article Type"

Proposed schedule

- Manuscript submission
- Notification of acceptance (after revision)
- Online with DOI
- Printed issue

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