

Workshop

Management & Control for Reliable Softwarized Networks

organized by **COST Action IC1304 (ACROSS)**
hosted by **ITC 29, Genoa, Italy - 4 September 2017**

<http://www.cost-across.nl/>

Background

Software Defined Networks (SDN), Network Function Virtualization (NFV) and Edge Cloud and Fog Computing are key ingredients of the currently ongoing trend towards softwarization of telecommunication networks. This trend will drastically reduce network costs through commoditization of hardware and will bring increased flexibility regarding network and service deployment, which will lower entrance barriers for new players and give rise to new value chains. However, in order to attain the full potential of softwarized networks, new research challenges for their management and control need to be addressed. This workshop deals with these management and control challenges to ensure availability and quality of existing and new services to be delivered over softwarized networks in an efficient and cost effective manner. Particular attention will be paid to the use of autonomous or cognitive control methods for resource management (bandwidth, computing, storage), in conjunction with big data techniques, to achieve these goals and maximize network reliability and resiliency.

Programme

(Lunch will be served for participants of the workshop at 12.15h)

- 13.00 – 13.15 **Hans van den Berg**, TNO/CWI/UT, Netherlands; **Kurt Tutschku**, BTH, Sweden (workshop co-chairs)
Welcome and Introduction
- 13.15 – 14.00 **Glenn Ricart**, US Ignite, USA
Keynote 1: Network Services Abstractions for Edge Computing
- 14.00 – 14.30 **Imen Grida Ben Yahia**, Orange Labs, Paris, France
Cognitive Network Management for Software Networks
- 14.30 – 15.00 **Ensar Zeljkovic**, University of Antwerp – imec, Belgium
ORCHESTRA: Virtualized and Programmable Orchestration of Heterogeneous WLANs
- 15.00 – 15.30 *Coffee break*
- 15.30 – 16.15 **Roberto Riggio**, FBK CREATE-NET, Trento, Italy
Keynote 2: Converging SDN and NFV at the network edges: the lightMANO approach
- 16.15 – 16.45 **Florian Wamser**, University of Würzburg, Germany
Study on Cloud-Based VNF for QoE Monitoring
- 16.45 – 17.15 **Niels van Adrichem**, TNO, The Hague, Netherlands
Robustness Challenges in Software-Defined Networks
- 17.15 – 17.45 **Attila Kertesz**, University of Szeged, Hungary
Investigating the Management of IoT Cloud Systems by Means of Simulation
- 17.45 – 18.00 **Rob van der Mei**, CWI/VU University, Amsterdam, Netherlands (workshop co-chair)
Wrap-up and Closing