

23rd International Conference on Telecommunications

ICT2016 "Expansion to Small"

May 16 - 18, 2016

Thessaloniki, Greece | Makedonia Palace Hotel

Technical Sponsorship



Workshop on

Advances on Network Virtualization for 5G Systems (NetVis' 2016)

Organizing Committee

Workshop Chairs

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Important Dates

Paper submission deadline
February 20, 2016

Notification of acceptance
March 5, 2016

Camera ready deadline
March 15, 2016

Information

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Call for Papers

5G networks will provide solutions to support a dynamic range of services from different industries, e.g. mobile, energy, automobile, health and manufactory industry. Due to the nature of different industries, the requirements defined by key performance indicators, like peak data rate, average user data rate, latency, energy consumption, service deployment time, are totally different. It is very complex to manage different services in 5G networks. To release to potential of 5G networks to the full support of vertical sectors, advanced technologies like software defined network (SDN), network virtualization, network function virtualization, network slicing and sharing need to be well addressed so as to reshape the network architecture and provide flexible enough network management for 5G networks. It is the purpose of the workshop to disseminate most recent results on these topics.

Moreover, the commoditization of key processing components coupled with virtualization of infrastructure functions will lead to a radical change in the economics of mobile networks. The latter will help network providers (e.g., MNO, MVNO) move from proprietary hardware and software platforms towards open and flexible cellular systems based on general-purpose cloud infrastructures. In this context, 5G systems will see a paradigm shift in three planes: the data-plane, control-plane, and management-plane, in support of higher performance, efficient signalling, flexible and intelligent control and coordination in heterogeneous networks.

Topics of interests include, but are not limited to:

- Mobile and wireless network architecture based on SDN, cloud computing, mobile edge computing and virtualization technologies
- Network virtualization technologies for RAN, backhaul and core networks
- Software defining and abstracting strategies for network function virtualization in mobile networks
- Network slicing in 5G networks
- Dynamic resource allocation based on wireless network virtualization
- Convergence of heterogeneous wireless networks based on SDN
- Network devices programmability and customizability
- Data center technologies for future wireless networks
- Future wireless network management
- Spectrum management and sharing issues for network virtualization
- Radio and spectrum virtualization
- Network evaluations and testbeds
- Network Functions Virtualisation (NFV) & SDN applications and use cases
- Cloud-native radio access networks
- Micro-service architecture and NFV
- Multi-tenancy and RAN sharing

Prospective authors are invited to submit high-quality original technical papers following the rules of the Main Track of ICT 2016 for presentation at the conference and **publication in the ICT 2016 Proceedings and IEEE Xplore** via EDAS, at <https://edas.info/newPaper.php?c=21703&track=78915>.

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