

Call for Papers for Selected Areas in Communications Symposium

SDN-NFV Track (SAC-11 SDN&NFV)

Symposium Track Chair

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Submissions must be done through EDAS at: <https://edas.info/newPaper.php?c=22652&track=81067>
The paper submission deadline is October 14, 2016.

Scope and Motivation

SDN-NFV are still in the standardisation process with different stakeholders (SDOs, Fora's and Initiatives) not yet converging. Case in point, the New IP Agency (NIA) is taking an industry approach by setting an interoperability platform for all Telecom, ISPs and vendors to peer-test and interop with each to create a defacto standard. In any case, this is a field still wide open for research and pilot testing work to open up its potential. The objective would be to exploit high levels of management and increased network agility and software-based deployment allowing re-iteration of future network impacting all architectures including IoT, Big data, Optical, Edge and Openstack-based cloud architectures and future 5G networks, greatly easing service deployment and smoothing infrastructure management

Main Topics of Interest

The topics of interest for this track include (but are not limited to):

- Network Softwarization for 5G
- Softwarized Openstack-based cloud infrastructures
- Softwarized edge cloud infrastructures
- Softwarized platforms for Internet-of-Things (IoT)
- Softwarized networks for Big Data applications
- Software-defined optical transport networks
- Energy efficient and green SDI
- SDN-NFV Mobility/Security/Privacy/Safety support
- IPv6-based SDN-NFV/Cloud/IoT inflections
- Traffic Engineering and QoS/QoE in SDN/NFV
- Interoperability of SDI with Legacy Infrastructures
- Centralized vs Distributed control of SDN/NFV-based systems
- Policy-based management in SDN/NFV
- SDN switch/router architectures/designs
- Resource management and Orchestration for SDN/NFV-based systems
- Modeling, representation, composition algorithms, and deployment for Service Function Chains
- Efficient network and service monitoring for SDN/NFV
- Transition strategies from existing networks to SDN/NFV
- Management of federated SDN/NFV infrastructures
- Debugging and introspection of software-defined virtualized
- APIs, protocols and languages for programmable networks and SDI (Software-Defined Infrastructures)
- Abstractions and Virtualization of resources, services and functions in SDN and NFV systems
- Availability and resilience of virtualized software-defined systems
- Verification/Auditing tools for softwarized systems
- Experience reports from experimental testbeds and deployments
- New service models and paradigms enabled by Softwarization
- Socio-economic impact and regulatory implications for Softwarization

Biography

- Founder & President, IPv6 FORUM (www.ipv6forum.org)
- Founding Chair, 5G World Alliance (<http://www.5gworldalliance.org/>)
- Chair, ETSI IPv6 Industry Specification Group : <https://portal.etsi.org/tb.aspx?tbid=827&SubTB=827>
- Chair, IEEE ComSoC IoT subcommittee (http://cms.comsoc.org/eprise/main/SiteGen/TC_IOT/Content/Home.html/)
- Chair, IEEE ComSoC 5G subcommittee
(http://cms.comsoc.org/eprise/main/SiteGen/TC_5GMWI/Content/Home.html?refer=18312&Site_Name=TC_5GMWI)
- Vice Chair, IEEE ComSoC SDN-NFV subcommittee:
http://cms.comsoc.org/eprise/main/SiteGen/TC_SDN_NFV/Content/Home.html
- Emeritus Trustee, Internet Society - ISOC (www.isoc.org)
- IPv6 Ready & Enabled Logos Program Board (www.ipv6ready.org)
- World summit Award Board Member (www.wsis-award.org)
- Research Fellow @ University of Luxembourg on multiple European Commission Next Generation Technologies IST Projects
- *Member of 3GPP PCG (Board) (www.3gpp.org)*
- *Member of 3GPP2 PCG (www.3gpp2.org)*
- *Member of UN Strategy Council*
- *Member of Future Internet Forum EU Member States (representing Luxembourg)*