



IEEE PVE-SDN 2019 Workshop

on Approaches, Analyses, and Performance Issues

in Virtualized Environments and Software Defined Networking (PVE-SDN)

June 24, 2019 – Paris, France

co-located with the 5th IEEE International Conference on Network Softwarization (NetSoft 2019)

<http://sites.ieee.org/sagroups-1916-1/ieee-pve-sdn-2019>

Call for Papers

The emergence of software-defined networking (SDN) and network function virtualization (NFV) as two pillars of a new networking paradigm has led to design and deployment of elastic content- and service-delivery virtual networks on cloud-based data centres whose backbones consist of software-defined physical networks. This dynamic, multi-layer architecture for network functions introduces new challenges in maintaining performance and quality of service for service providers, and requires new ideas and frameworks for performance measurement and network management.

This workshop aims to bring together academic and industry researchers from software-defined ecosystems to identify and discuss technical challenges, state of the art techniques, and contemporary results related to performance analysis of SDN and NFV environments. It is supported by the IEEE P1916.1 working group that was founded in December 2015 with the goal of developing standards for the performance requirements of SDN/NFV-based environments.

Submissions are welcomed on a variety of topics including but not limited to:

- Performance models for virtualized environments
- Performance metrics in virtualized environments
- Performance measurement in virtualized environments
- Quality of Service and Quality of Experience in cloud-based networks
- Content distribution in virtualized environments and software-defined networks
- Resource-aware virtualisation and infrastructure as a service
- Management of software-defined ecosystems
- Service provider requirements
- SDN/NFV Performance in Context of 5G
- Performance of SDN data, control, and management planes
- Design and assessment of efficient SDN northbound/southbound interfaces
- Performance of multi-controller SDN deployments
- Service function chaining performance evaluation
- Performance of NFV orchestration solutions
- Analysis of SDN and/or NFV systems
- SDN/NFV in Context of BlockChains, and FinTech
- Quantum devices and hybrid networks, quantum communications, QKD-compatible SDN

***** Submission Guidelines *****

Prospective authors are invited to submit papers prepared using IEEE 2-column conference style ([IEEE paper Template](#)) with no more than 6 pages including figures and references. The PDF version of the paper should be then submitted through EDAS: <https://edas.info/newPaper.php?c=25706> Please note that all accepted papers need to be presented at the workshop to be included in the workshop proceedings and IEEE Xplore.

For more details, please check the workshop website:
<http://sites.ieee.org/sagroups-1916-1/ieee-pve-sdn-2019/>

***** Important dates for tutorials *****

- Paper submission deadline: **February 15, 2019**
- Acceptance notification: **March 22, 2019**
- Camera-ready submission: **April 5, 2019**

***** Workshop Co-Chairs *****

- Mohammad Asad Rehman Chaudhry, Soptimizer, Canada
- Hesham ElBakoury, FutureWei, Huawei, USA
- Mohamed Faten Zhani, École de Technologie Supérieure (ÉTS Montreal), Canada

***** Technical Co-Chairs *****

- Shahram S. Heydari, University of Ontario Institute of Technology, Canada
- Walter Cerroni, University of Bologna, Italy
- Lucia Gradinariu, Zeepabyte, Inc., USA