Call for Papers

The 4th PVE-SDN workshop aims to explore potential challenges and solutions for the goal of maintaining network performance in next generation virtualized and software-defined network environments. The design and deployment of elastic content- and service-delivery virtual networks on cloud-based data centers whose backbones consist of software-defined physical networks has led to a dynamic, multi-layer architecture for network functions that 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. Furthermore, it is expected that the exponential growth in Internet of Things (IoT) and massive machine-to-machine communication, coupled with ultra-low latency, high bandwidth, high precision communications and high availability and reliability requirements of new breeds of future network applications, will drive the future Internet technologies, services and architecture. The future network applications will include high-precision, multi-dimensional information delivery such as holographic type communication, immersive virtual reality, telepresence, tele-surgery, and industrial avatars. Guaranteeing Quality of Experience (QoE) for such high-precision services would rely primarily on accurate and timely measuring and maintaining network performance in next generation networks.

Submissions are welcomed on a variety of topics including but not limited to:
- Performance models, metrics and measurement for virtualized environments
- Quality of Service and Quality of Experience in next generation SDN
- Content distribution in virtualized environments and software-defined networks
- Resource-aware virtualization and infrastructure as a service
- Management of software-defined ecosystems
- High-Precision and Qualitative Communication Services
- SDN/NFV Performance in Context of 5G
- 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
- Role of virtualization and software defined environment in enhanced governance and digital transformation
- Policy paradigms related to software defined environments

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://www.edas.info/chair.php?c=29271

Please note that all accepted papers need to be presented at the workshop to be included in the workshop proceedings and IEEE Xplore.

Important Dates

Workshop paper submissions: ~~February 28, 2022~~ March 21, 2022 (Extended, Firm)
Notifications to authors: April 21, 2022
Camera-ready workshop papers: May 5, 2022
Workshop date: June 27, 2022 or July 1, 2022

Workshop Technical Sponsor

IEEE P1916.1 Standard Working Group

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