IEEE NetSoft 2019

The 5th IEEE International Conference on Network Softwarization

"*Unleashing the Power of Network Softwarization*"

June 24-28, 2019 – Paris, France

http://ieee-netsoft.org

Call for Papers

The 5th IEEE International Conference on Network Softwarization (NetSoft 2019) will be held on June 24-28, 2019 in Paris, France. IEEE NetSoft has been created as a flagship conference aiming at addressing "Softwarization" of networks and systemic trends concerning the convergence of Cloud Computing, Software-Defined Networking (SDN), and Network Functions Virtualization (NFV).

*** Scope ***
Over the years, software has become the core value provider in the telecommunications industry. Boosted by scientific breakthrough, continuous innovation and stringent requirements for new services, the telecommunications transformation is on track and filled with opportunities. The supporting technologies are maturing at great pace and softwarization is recognized as a major enabler by many standardization efforts and industrial initiatives.

This trend will be reflected in NetSoft 2019 in the various topics of interest under the theme "*Unleashing the power of network softwarization*" and the conference will serve as a forum to discuss the latest advances in this area in both industry and academia.

*** Topics of interest ***
NetSoft 2019 will feature technical paper presentations, keynotes, tutorials, demos and exhibitions from world-leading experts representing service providers, vendors, research institutes, open source projects, and academia. Additionally, topical workshops will be co-located so various call for proposals are issued.

The topics of interest include, but are not limited to:
- Programmable SDN and NFV: languages, architectures, environments
- Softwarized cloud, fog, and edge infrastructures
- Cognitive and autonomic networking
- Network slicing and slice management
- Mobility management in software networks
- Policy-based and Intent-Based Networking
- Centralized vs Distributed control, management & orchestration
- Abstractions and virtualization of resources, services, and functions
- Service Function Chaining
- Container/microservice-based network functions

- Efficient network/service monitoring in SDN/NFV
- AI techniques to support network automation
- Analytics and big data approaches for managing softwarized networks
- QoS and QoE in softwarized infrastructures
- Resilience, reliability, and robustness of softwarized networks
- Cooperative multi-party, multi-domain, multi-tenant SDN/NFV environments
- Security, Safety, Trust and Privacy support in virtualized environments
- SDN switch/router architecture and design
- Dynamic resource discovery mechanisms and service parameter/resource negotiation schemes
- APIs, protocols, and languages for programmable networks
- Lifecycle management of network software
- DevOps methodologies for network softwarization
- Debugging and introspection of software-defined virtualized systems
- Service fulfillment assurance systems in SDN/NFV environments
- Softwarized platforms for Internet of Things (IoT)
- Energy efficient and green software-defined infrastructures (SDI)
- Transition strategies from existing networks to SDN/NFV
- New service models and paradigms enabled by softwarization
- New value chains and business models
- Socio-economic impact and regulatory implications for softwarization
- Experience reports from experimental testbeds and deployments

*** Paper Submissions ***

Authors are invited to submit original, English-written contributions in PDF format. Only original papers not published or submitted for publication elsewhere can be submitted. Papers can be of two types: full (up to 9 pages) or short (up to 5 pages) papers. Full Papers accepted as short Papers will be required to be reduced to 5 pages.

Papers should be in IEEE 2-column US-Letter style using IEEE Conference template (see https://goo.gl/osSfEF). Only PDF files will be accepted for the review process and all manuscripts must be electronically submitted through EDAS: https://edas.info/newPaper.php?c=25363.

Papers exceeding these limits, multiple submissions, and self-plagiarized papers will be rejected without further review. All submitted papers will be subject to a peer-review process. At least one author of each accepted paper is required to register to the NetSoft 2019 main conference to have the paper published in the conference proceedings. The paper must be presented at the conference by one author to be submitted for publication in IEEE Xplore.

Important: *NetSoft 2019 is enforcing a strict publication and no-show policy as stated by IEEE. Please check the NetSoft 2019 website for details*.

For more details about submission, please check http://ieee-netsoft.org/authors.
Please register your paper at your earliest convenience on EDAS.

*** Important dates ***
- *Paper submission deadline*: ~~December 13, 2018~~ **January 7, 2019 – Hard deadline**
- *Acceptance notification*: **March 8, 2019**
- *Camera-ready Papers*: **April 5, 2019**

*** TPC Co-Chairs ***

Prosper Chemouil, *Orange Labs (retired)*, France
Flavio Esposito, *Saint Louis University*, USA
Olivier Festor, *TELECOM Nancy*, France

*** General Co-Chairs ***

Filip De Turck, *Ghent University*, Belgium
Christian Jacquenet, *Orange Labs*, France