



## IEEE NetSoft 2018

The 5<sup>th</sup> IEEE International Conference on Network Softwarization

***“Unleashing the Power of Network Softwarization”***

24-28 June 2019, Paris, France

<http://ieee-netsoft.org>

The 5<sup>th</sup> 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 Function 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 in 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 (both industry and academia related) in this area.

### \*\*\* 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- and Intent-Based Networking
- Centralized vs Distributed control, management & orchestration
- Abstractions and virtualization of resources, services, and functions
- Service function chaining (including SF placement optimization and SFC OAM)
- 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 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

**\*\*\* Call for Submissions \*\*\***

You are invited to submit technical papers, tutorial, demo and workshop proposals that fall into the conference topics of interest. Deadlines are:

- *Technical Papers:*       **December 10, 2018**
- *Workshop Proposals:* **December 19, 2018**
- *Tutorial Proposals:*   **January 15, 2019**
- *Demo Proposals:*       **March 11, 2019**

Accepted and presented technical papers will be published in the conference proceedings. For more details about submission, please check next at <http://ieee-netsoft.org/authors>.

**\*\*\* Important dates for Main Track \*\*\***

- *Paper submission deadline:*       **December 10, 2018**
- *Acceptance notification:*       **March 8, 2019**
- *Full Conference Paper:*       **April 5, 2019**

**\*\*\* TPC Co-Chairs \*\*\***

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