



## IEEE NetSoft 2019

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

*“Unleashing the Power of Network Softwarization”*

June 24-28, 2019 – Paris, France

<http://ieee-netsoft.org>

### Call for Workshop Proposals

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 Functions Virtualization (NFV).

IEEE NetSoft invites proposals for full-day or half-day workshops. The purpose of the workshops is to complement the conference program with in-depth or integration forums that are dedicated to related and emerging topics ((i.e. self-organizing smart networks, Big-Data-based management and control, management of tactile internet, edge software networks etc.) and/or other specific topics of NetSoft 2019. Proposals from industry and academia are welcome. Accepted and presented workshop papers will be published in the conference proceedings and will be submitted to IEEE Xplore.

#### \*\*\* Workshop proposal submissions \*\*\*

Each NetSoft2019 workshop proposal has to be submitted in a single PDF file, and must include:

- Name and abbreviation of the workshop
- Names, addresses, and a short (200 words) bio of the major organizers (including TPC (Co-)chair(s) and OC General (Co-)chair(s))
- A brief description (1 page) of the technical focus addressed by the workshop, reasons why the workshop is of interest at this time, and reasons why this area is important in the context of NetSoft2019 and its main theme; additionally, state explicitly why this workshop is unique
- Technical Program Committee (TPC) and/or Organizing Committee (OC)
- Likely contributors and targeted audience
- Planned format of the workshop, including a strategy to facilitate lively and interactive discussions
- A description of past events of the workshop, including statistics of submitted/accepted papers and attendee numbers. If the workshop does not have past editions, please provide rough estimates for both expected paper submissions and attendees with a brief explanation on how you arrive at those estimates.
- Publicity and advertising plan to attract paper submissions and attendees
- A draft of 1-page “Call for Papers (CfP)” including title, description, topics, dates

Please submit workshop proposals via email to the workshop program co-chairs of NetSoft 2019:

- Alexander Clemm: [alexander.clemm@huawei.com](mailto:alexander.clemm@huawei.com)
- Pierre Peloso: [pierre.peloso@nokia-bell-labs.com](mailto:pierre.peloso@nokia-bell-labs.com)

**\*\*\* Important dates for workshops \*\*\***

- *Workshop submission deadline:* \_\_\_\_\_ **November 12, 2018**
- *Workshop acceptance:* \_\_\_\_\_ **November 16, 2018**
- *Workshop paper submission deadline:* \_\_\_\_ **February 15, 2019** (suggested to organizers)
- *Workshop paper acceptance:* \_\_\_\_\_ **March 22, 2019**
- *Camera-ready papers:* \_\_\_\_\_ **April 5, 2019**
- *Workshop dates:* \_\_\_\_\_ **June 24 and June 28, 2019**

**\*\*\* Topics of NetSoft 2019 \*\*\***

For reference, Netsoft 2019 will highlight the theme "*Unleashing the power of network softwarization*", covering topics that include the following

- 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

**\*\*\* Workshop Program Co-Chairs \*\*\***

**Alexander Clemm**, *Huawei, USA*

**Pierre Peloso**, *Nokia Bell Labs, France*

**\*\*\* General Co-Chairs \*\*\***

**Filip De Turck**, *Ghent University, Belgium*

**Christian Jacquenet**, *Orange Labs, France*