



IEEE Conference on Network Softwarization  
29 June-3 July 2020 // Ghent, Belgium



## Call for Papers

The 6<sup>th</sup> IEEE International Conference on Network Softwarization (NetSoft 2020) will be held from June 29 to July 3, 2020 in the historic city of Ghent in Belgium. IEEE NetSoft has been created as a flagship conference aiming at addressing softwarization of networks and systemic trends raised by the convergence of Cloud Computing, Software-Defined Networking (SDN) and Network Function Virtualization (NFV), leading to a significant evolution of networks and services.

### 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, network softwarization is currently transforming telecommunications and networking industry, and is bringing several opportunities, while raising new challenges, from both conceptual and operational perspectives. To pave the way for the next big step toward full network automation, with unprecedented capabilities offered by Artificial Intelligence (AI), NetSoft 2020 will serve as a forum to discuss the latest advances in network softwarization technologies, AI-based software-defined networks, autonomic networking, policy-based network management, network slicing, and other related research areas that are anticipated to radically transform today's networks. The need for further advances in these topics is reflected in the overall theme of NetSoft 2020: *"Bridging the gap between AI and Network Softwarization"*.

NetSoft 2020 will feature technical paper presentations, keynotes, tutorials, workshops, demos and exhibitions from world-leading experts representing service providers, vendors, research institutes, open source projects and academia.

### Topics of Interest

The topics of interest include, but are not limited to:

- Programmable SDN and NFV: languages and architectures
- Softwarized cloud, fog and edge infrastructures
- Cognitive and autonomic networking
- AI techniques to support network automation
- Big data analytics for managing softwarized networks
- 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
- QoS and QoE in softwarized infrastructures
- Resilience, reliability, and robustness of softwarized networks
- Network softwarization for 5G
- Network management at the edge for low-latency services
- Cooperative multi-domain, multi-tenant SDN/NFV environments
- Security, Safety, Trust and Privacy in virtualized environments
- SDN switch/router architecture and design
- Dynamic resource discovery and negotiation schemes
- Lifecycle management of network software
- DevOps methodologies for network softwarization
- Debugging and introspection of software-defined systems
- Softwarized platforms for Internet of Things (IoT)
- Energy efficient and green software-defined infrastructures (SDI)
- Transition strategies from existing networks to SDN/NFV
- New value chains and service models enabled by softwarization
- Socio-economic impact and regulations for softwarization
- Experience reports from experimental testbeds and deployments

Prospective authors are invited to submit original contributions as technical papers using the IEEE 2-column conference style with no more than 9 pages (Full papers) or 5 pages (Short papers), including tables, figures and references.

For more information, please check <http://ieee-netsoft.org>.

### Important Dates

**Paper Submission:** December 2, 2019  
**Acceptance Notification:** March 9, 2020  
**Camera Ready Due:** April 6, 2020  
**Conference:** June 29 – July 3, 2020

### General Co-chairs

Filip De Turck, Ghent University - imec, Belgium  
Prosper Chemouil, Orange Labs (retired), France

### Technical Program Co-chairs

Tim Wauters, Ghent University - imec, Belgium  
Mohamed Faten Zhani, ÉTS, Canada  
Walter Cerroni, University of Bologna, Italy

### Publication Co-chairs

Zuqing Zhu, USTC, China  
Rafael Pasquini, UFU, Brazil