

# CALL FOR PAPERS

## 23rd Conference on Innovation in Clouds, Internet and Networks February 24-27, 2020 Paris, France

<https://www.icin-conference.org/>

The ICIN conference, established in 1989 and praised for the high quality of its technical program and richness of its social networking, is also recognized for its continuous adaptation to emerging technical trends.

The year 2020 will be a keystone in the evolution toward the networks of the future, with the first commercial deployments of large-scale 5G infrastructures, the increasing interest in network intelligence and machine learning techniques applied to network management and orchestration, the progress of precision networking technologies toward low-latency services, and the end of the Horizon 2020 research framework program in Europe superseded by the next Horizon Europe.

In this scenario and considering the many challenges that the aforementioned paradigms and technologies will bring, ICIN 2020 will focus on:

**“Beyond 5G: building network sense”**

### Topics of interest

#### - Cloud and networking aspects of IoT, 5G, and beyond

- \* Vertical industries and digital twins
- \* Automotive and vehicular networking, including vehicular cloud services
- \* Tactile Internet and precision networking
- \* Protocols for ultra-low latency and ultra-high reliability
- \* Fog, edge and multi-access computing and networking
- \* Security, trust and privacy, especially applied to IoT and 5G networks

#### - Enablers and services for 5G networks: from experiments to reality and beyond

- \* 5G network architecture, services, protocols, and use cases
- \* Service-Based Architecture (SBA) design applied to the control plane, data plane and management plane
- \* 5G functional decomposition and composition
- \* Advanced 5G infrastructure slicing
- \* Scalability and multi-tenancy in 5G networks and 5G network slicing

#### - Network automation and orchestration architectures and protocols

- \* Intent-based network management and cloud resource orchestration
- \* Network programmability architectures and systems
- \* Orchestration of distributed cloud and network resources in vertical markets
- \* Network artificial intelligence, machine learning and reasoning
- \* Network data analytics, anomaly detection, and feature extraction
- \* Autonomic and cognitive networking
- \* Societal and legal aspects of network automation

#### - Technologies for innovation in clouds, Internet and networks

- \* Software Defined Networking (SDN)
- \* Network Function Virtualization (NFV)
- \* Service function chaining, function placement and network embedding
- \* Big data and fast data processing and management
- \* Use of Distributed Ledger Technologies in networking and network services
- \* CDN architectures and network cache allocation schemes
- \* Advanced multimedia and real-time communications, QoS/QoE design
- \* Lightweight virtualization technologies, software and hardware acceleration
- \* Performance, optimization and resource dimensioning
- \* Energy-efficient software-defined infrastructures
- \* Measurement, monitoring and telemetry
- \* Testbeds, open-source projects and open standards

### Submission Guidelines

Submissions should be original, unpublished work, not currently under review by other conferences or journals. Papers submitted to ICIN 2020 will be assessed based on originality, technical soundness, clarity and interest to a wide audience.

Only PDF files will be accepted for the review process and all submissions must be done electronically through EDAS: <https://edas.info/N26190>

Technical papers can be of two types: full papers or short papers, up to 8 pages and 5 pages respectively, including tables, figures and references. Demo papers of length of 3 pages are also solicited.

At least one author is required to register, at the full rate, to present accepted papers at the conference and for the paper to appear in the conference proceedings.

You will find instructions and additional information on our web site at:

<https://www.icin-conference.org/>

### Important Dates

- Paper Submission: October 4, 2019
- Paper Acceptance Notification: December 2, 2019
- Final Papers Due: January 10, 2020
- Conference: February 19 – 21, 2020

### Organizing Committee

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