CALL FOR PAPERS

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25th Conference on Innovation in Clouds, Internet and Networks
March 7 – 10, 2022
Paris, France

Since 1989, the ICIN conferences have been bringing together leading Internet and telecom experts from industry, academia and government from across the globe. For the 2022 edition, ICIN is focusing on the move towards “NextG” and the upcoming 6G that is clearly up to-the-minute and probably happening faster than expected now that initial 5G deployments are a reality. The need for ambient connectivity at the network edge requires novel thinking and the already engaged convergence between Network, IT and Cloud systems is still an enabler for efficient cooperation between all network technologies (wireless, optic, satellite, IoT and low-power, etc.). These tendencies are aligned with the growing adoption of cognitive approaches for management and control, as well as for specific services at the edge and at critical technical domains using highly optimized deployment models in terms of resource and energy use. Several innovations are impacting the ways to address emerging requirements from all sectors of the social and economical domains (health, environment, agriculture, industry, banking, etc.) that are also evolving with digitalization. The extraction of valuable and tailored services along with the extension of the network reach and the software-based automation of its operation are 3 main axes to which schemes for high reliability and adaptability are extremely needed to capitalize on the openness and heterogeneity that beyond 5G and 6G networks would drive.

Considering the many challenges that the aforementioned paradigms and technologies will bring, the theme for ICIN 2022 is: “Paving the way to an inclusive and sustainable 6G”

Topics of interest

- Beyond 5G and towards 6G architectures and networks
  * Towards 6G use cases and requirements
  * Coverage extension approaches
  * Extended coverage and disruptive infrastructure deployment models
  * Efficiency and cooperation models across network segments
  * Softwarized and flexible networks and services for high adaptability
  * Reliability, resilience and robustness
  * Cross-networks and services trustworthiness enablers

- Edge-Cloud continuum and softwarized networks evolution
  * Edge for vertical industries
  * Digital twin challenges
  * Automotive and vehicular networking, vehicular cloud services
  * Tactile Internet and precision networking
  * Functional decomposition and orchestration, service chaining
  * Protocols for ultra-low latency and ultra-high reliability
  * Fog, edge and multi-access computing and networking
  * Security, trust and privacy

- Enablers and services for wireless and mobile networks
  * Network and service architecture, protocols, application-network-layer interworking,
  * Scalability and multi-tenancy in beyond 5G and emerging networks
  * Green networking and efficient resource usage and service delivery
  * Security, trust and privacy management in large systems and smart environments

- Network automation and orchestration architectures and protocols
  * Zero-touch network and service management and orchestration
  * Artificial intelligence for networks and networks for artificial intelligence
  * Network data analytics, anomaly detection, and feature extraction
  * Autonomic and cognitive networking
  * Automated data, control, and management planes
  * Intent-based network management
  * Network programmability
  * Automated QoS and QoE management
  * Orchestration of distributed cloud and network resources
  * Security, societal and legal aspects of network automation

- Technologies for innovation in clouds, Internet and networks
  * SDM, NFV, service function chaining, function placement and network embedding
  * Cloud-native design applied to network planes
  * Distributed Ledger Technologies in networking and network services
  * Advanced multimedia and real-time communications, QoE/QoS Assurance
  * Lightweight virtualization technologies, software and hardware acceleration
  * Energy-efficient software-defined infrastructures
  * Measurement, monitoring and telemetry

Submission Guidelines

Submissions should be original, unpublished work, not currently under review by other conferences or journals. Papers submitted to ICIN 2022 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/N28598

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.

ICIN 2022 is technically co-sponsored by IEEE, IEEE ComSoc, ACM SIG MOBILE In-Cooperation

All accepted & presented papers will be published in IEEE Xplore.

The best papers presented at the conference will be invited to submit an extended version for fast-track review in the following journals:
- IEEE Communications Magazine (Impact Factor: 10.356)
- IEEE Transactions on Network Service and Management (Impact Factor: 4.682)

Important Dates

Full Paper Submission: November 15, 2021 (Final)
Short & Demo Paper Submission: January 7, 2022
Paper Acceptance Notification: January 21, 2022

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