



Call for Papers

<http://cloudnet2019.ieee-cloudnet.org>

Cloud Networking has emerged as a promising direction for cost-efficient and reliable service delivery across data communication networks. The dynamic location of service facilities and the virtualization of hardware and software elements are stressing the communication network and protocols, especially when datacenters are interconnected through the Internet. Emerging technologies like Network Function Virtualization (NFV) and Software Defined Network (SDN) can play significant roles by improving the dynamicity and programmability of cloud networks. Middlebox has been significantly improved the agility of cloud network deployment and management. The 8th IEEE International Conference on Cloud Networking (IEEE CloudNet 2019), part of the IEEE Cloud Computing Initiative, can greatly promote researches in cloud network and emerging research areas.

Topics of Interest (but not limited to)

Cloud network and resource management

- Data Center Network Optimization and Management
- Reliability of Data Center Network and Architecture
- Energy-Efficient Datacenters and Networks
- Cloud Traffic Characterization and Measurements
- Cloud Traffic Engineering
- Data Flow Management and Load Balancing
- Cloud Storage Management
- Green and Energy-Efficient Datacenters and Networks

Cloud network and virtualization

- Data Center Networks
- Virtual Ethernet Switching, Data Center Bridging
- Mobile Cloud Networking
- Virtualization of Network Equipment
- Software-Defined Networking
- Network Function Virtualization
- Middleware and Middleboxes

Cloud network and supported services

- Big Data Management
- Data Analytics in Cloud
- Network Services to support IaaS, PaaS, and SaaS
- Unified User and Machine Mobility Management
- Content and Service Distribution
- Complementing Edge Computing with Data Center Networks

Cloud network architecture

- Control-Plane Architectures
- Distributed Data Center Architectures
- Routing in cloud networks
- Intra-Cloud vs Inter-Cloud Management
- Cloud Federation and Hybrid Cloud Infrastructure

Cloud network security and privacy

- Security, Privacy, and Confidentiality in Cloud Networking
- Cloud Data Provenance and Data Loss Protection
- Cloud Storage Security
- Cloud Network Intrusion Detection/Prevention
- Firewall and Deep Packet Inspection Systems in Cloud Networks

Authors are invited to submit original contributions that have not been published or submitted for publication elsewhere. Submissions must be in IEEE single-spaced double-column style with a length limitation of 6 pages (including title, abstract, all figures, tables, and references) for full papers (oral presentation) and 3 pages for short papers (poster presentation). Accepted papers will be submitted to IEEE Xplore.

For more information please check <http://cloudnet2019.ieee-cloudnet.org>

Important Dates

Paper Submission: June 21, 2019
Acceptance Notification: Aug. 30, 2019
Camera Ready due: Sept. 12, 2019
Conference: Nov. 4-6, 2019

General Co-Chairs:

Paulo Simões, University of Coimbra, Portugal
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