Scope and Motivation:

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 data centers are interconnected through the Internet and long-distance networks. Although the "computing" aspects of Cloud technologies have been largely investigated, lower attention has been devoted to the "networking" aspects around Cloud network management, Cloud Fabric protocols, Cloud traffic engineering, network-aware consolidation and related issues, novel technologies paving the way to the emergence of new advanced Cloud services. The Cloud Services and Networks Track precisely addresses these aspects.

Main Topics of Interest:

The Cloud Services and Networks Track seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Data Center Network Management, Optimization, Virtual Embedding
- Distributed Data Center Architectures, Reliability
- Internet Routing of Cloud traffic
- Ethernet Routing Fabrics: TRILL, SPB, L2LSP
- Cloud overlay network protocols: VXLAN, STT, NVGRE, LISP
- Cloud network operating systems
- Network Programmability, Software-Defined Networking and Protocols: NetConf, SNMP, FORCES, OpenFlow, etc
- Virtual Ethernet Switching, Data Center Bridging
- Cloud Traffic Characterization and Measurements
- Intra-Cloud and Inter-Cloud Management
- Cloud Traffic Engineering and Control-Plane Architectures
- Green Cloud Networking, Energy Efficiency in VM Consolidation
• Security, Privacy, Confidentiality in Cloud Networking
• Network Function Virtualization (NFV)
• Cloud Radio Access Networks (C-RAN) technologies, Femto-Cloud
• Virtual Machine Mobility Algorithms and Protocols
• Unified User and Machine Mobility Management, Application Offloading
• Mobile Cloud Networking, Follow-Me-Cloud
• Storage Area Networks, Optical Interconnect, Fiber Channel
• Cloud Content and Service Distribution, Information Centric Networking

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