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Important dates

Paper Submission:

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***** Call for Papers *****

Cloud communications and networking become more and more important fostered by proliferation of cloud offerings. Data centers are becoming containers of virtual provider networks, whose embedding can be optimized as a function of cost, customer demands, energy savings (“Follow-the-Sun” concept), dynamic scaling, Quality-of-Service (QoS) and Quality-of-Experience (QoE). In the access, network offloading protocols and advanced service migration and caching techniques are being leveraged to offload cellular provider networks and improve user QoE (“Follow-Me Cloud” concept). Efficient resource management in data center and cloud networks is an open research challenge, which is particularly important with the increasing reliance on bandwidth-demanding Virtual Machine (VM) migrations for resource consolidation and energy management across geographically distributed data centers.

Topics of Interest

- Intra/Inter-cloud Network Architectures and Protocols
- Data Center Network Architectures
- Data Center Network Virtualization
- Addressing and Routing in Cloud-based Networks
- Virtual Ethernet and Data Center Bridging
- Cloud-based Virtualization of Wireless Access Networks
- Data Transport Protocols for Cloud Networks
- Cloud Traffic Monitoring and Characterization
- Cloud Traffic Modeling and Engineering
- Cloud Service and Network Brokering
- Energy-efficient and Green Cloud Networking
- Cloud User and VM Mobility Management
- Mobile Cloud Networking and Network Offloading
- Mobile Cloud Resource and QoS Management
- Cloud Network Consolidation and Optimization
- Cloud Network Elasticity and Dynamic Scaling
- Cloud Resource and Network Management
- Algorithms and Protocols for Virtual Machine Placement and Migration
- Fault Tolerance and Cloud Network Service Resiliency
- Billing in Mobile Cloud Networks
- Security, Privacy, Confidentiality in Cloud Networking
- Design of Cloud Network Interfaces and Libraries
- Software Defined Networking in the Cloud
- OpenFlow Routing and Scalability in Cloud Networking
- Networking with OpenStack and CloudStack
- Testing and Evaluation Tools
- Prototype Systems and Real Life Deployments
- Relevant Standardization Activities

Submission

All manuscripts and any supplementary material should be submitted through the Elsevier Editorial System (EES) located at <http://ees.elsevier.com/comnet/>. Manuscripts should not exceed 25 pages in length. Authors must select as relevant SI Article type “Cloud Networking II” when they reach the “Article Type” step in the submission process.

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