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IEEE Global Communications Conference
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Abu Dhabi, UAE
Gateway to a Connected World

Call for Papers
Selected Areas in Communications Symposium
Track on Cloud Computing, Networking, and Storage

Symposium Track-Chair:
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Scope and Motivation:
The cloud has become the norm to aggregate, store, and analyze data and carry out computation at any scale. The cloud has also become the preferred platform to host, support and facilitate almost any emerging technology including IoT, blockchain, AI, AR, big data, robotics, autonomous vehicles, etc. The cloud infrastructure and services are still evolving with the rise of serverless computing, storage disaggregation, Function as a Service (FaaS), and fog/mobile/edge computing. Moreover, the underlying networking and storage technologies and architectures adopted within the cloud datacenter can highly impact the end-to-end performance and QoS of cloud-hosted applications and services. More importantly, the emergence of massive distributed data storage networks, the multiplication of cloud storage systems, as well as the proliferation of data centers pose a whole range of new scientific and engineering challenges related to scalability, interoperability, integration, management, and automation.

All of this is fueling the needs for significant research and development efforts to investigate, propose, and deploy effective solutions, techniques, and protocols pertaining to cloud infrastructure, networking, and to the efficient, reliable, and effective management and hosting of the various legacy and emerging applications, services, and storage systems.

Main Topics of Interest:
To ensure complete coverage of the latest advances in topics related to Cloud computing, Networking, and Storage, this track cordially invites original contributions in, but not limited to, the following topical areas:

- Cloud datacenter architecture and networking
- Cloud federation, bridging, and bursting
- Fog/edge computing
- Cloud and fog computing for IoT
- IoT-Fog-Cloud interactions and protocols
- Mobile cloud networking
- Virtualization of networking equipment

- SDN-enabled cloud datacenters
- Intra and inter-cloud networking
- Cloud hosted big data analytics
- Elasticity and scalability of cloud resources
- Cloud traffic characterization
- Cloud management, orchestration, and automation
- Cloud-hosted blockchain infrastructure
- Blockchain cloud services
- Microservices and Docker containers
- Serverless computing and FaaS
- Cloud-based storage platforms, IPFS, SWARM, Filecoin
- Decentralized cloud storage
- Software defined storage
- Data storage channels and distributed storage networks
- Emerging storage media: MRAM, RRAM, PCM, etc.
- Security and privacy in the cloud infrastructure, services and storage

How to Submit a Paper:
The IEEE Globecom 2018 website provides full instructions on how to submit papers. You need to select the desired symposium and track when submitting.