IEEE GLOBECOM™ 2019

IEEE Global Communications Conference
9-13 December 2019 • Big Island, Hawaii, USA
Revolutionizing Communications

CALL FOR PAPERS AND PROPOSALS

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

SYMPOSIUM CO-CHAIR:

Anxiao (Andrew) Jiang, Texas A&M University, USA

SCOPE AND MOTIVATION:

This track covers all essential aspects of the storage, networking and computing of data for cloud, fog and edge computing. Cloud computing is making the storage and processing of data scalable, flexible and easy to use. Fog computing and edge computing are making the storage and computing closer to edge devices, enabling Internet of Things (IoT) and many other applications. There are many important technical challenges, including reliable distributed storage for both big data applications and small devices, high-speed networking in complex and heterogeneous environments, information processing and computing with varied quality requirements, algorithms and protocols for better system integration and computing service, the support for emerging applications including (but not limited to) Internet of Things, Artificial Intelligence, Augmented Reality, Blockchain, Big Data, Robotics, and more.

Original research contributions are solicited for this important area. This track aims at bringing together the efforts of the academia and the industry to improve information systems in significant ways. Theory, algorithms and system technologies that can substantially impact existing cloud, fog, edge computing systems or lead to novel future developments are particularly encouraged.

MAIN TOPICS OF INTEREST:

The organizing committee is soliciting original contributions on any topic related to data storage, networking and computing for cloud, fog and edge computing, including (but not limited to):

- Cloud datacenter architecture and networking
- Distributed storage for cloud and fog/edge computing
- Coding theory for data storage and transmission
- Data storage in current and emerging nonvolatile memories
- Cloud federation, bridging and bursting
- Cloud and fog computing for Internet of Things

- Mobile networking and computing for cloud and fog/edge computing
- Virtualization of storage, networking and computing
- SDN-enabled cloud datacenters
- Intra and inter-cloud networking
- Data analytics for distributed computing and IoT
- Elasticity and scalability of cloud resources
- Cloud traffic characterization
- Cloud management, orchestration and automation
- Cloud-hosted blockchain infrastructure and services
- Serverless computing and FaaS
- Cloud-based storage platforms
- Decentralized storage in cloud and fog/edge computing systems
- Software defined storage
- Data storage channels and distributed storage networks
- Emerging storage media: MRAM, RRAM, PCM, etc.
- Security and privacy in the cloud and fog/edge infrastructure, services and storage

Important Dates:

Paper Submission: 15 April 2019
Acceptance Notification: 15 July 2019
Camera-Ready: 16 Aug 2019

Papers can be submitted following the link https://edas.info/N25074. Once you get to this page, you will be able to select the track for submission.