IEEE ICC®

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Connectivity – Security – Privacy

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

Track Chair

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Scope and Motivation

Capabilities of the cloud systems have emerged to encompass three essential organizational requirements: computation, storage and networking. Employment of the cloud systems made data storage and processing scalable, flexible and resilient. On the other hand, fog/edge computing allows storage and computation to be handled closer to edge devices, enabling Internet of Things (IoT) and mobile applications meet unprecedented performance. However, there are many important technical difficulties to tackle, including reliable distributed storage for both big data applications and small devices, high-speed networking in complex and heterogeneous environments, secure virtualization of compute, storage and network resources, information processing and computing with varied quality of service requirements, development of algorithms and protocols for better system integration and computing services, the support for emerging applications including the IoT, Artificial Intelligence, Augmented Reality, Blockchain, Big Data, Robotics, and more.

The objective of this track is to bring together the collective/individual efforts of the academia and the industry to improve information systems in many unpredictable ways. Theory, algorithms and system technologies that can substantially impact existing cloud, fog and edge computing systems or lead to novel future developments are particularly encouraged.

Topics of Interest

The Cloud Computing, Networking and Storage track seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Cloud and fog computing for IoT
- Cloud data center architecture and networking
- Cloud-hosted Blockchain infrastructures and services

- Cloud management, orchestration and automation
- Cloud federation, traffic characterization and bridging
- Cloud system reliability modelling and data endurance
- Coding theory for data storage and transmission
- Data analytics for distributed computing and IoT
- Data storage channels and distributed storage networks
- Decentralized/Distributed storage in cloud and fog/edge computing systems
- Distributed ledger technologies for smart system design (smart cities, grids, energy, etc.)
- Elasticity and scalability of cloud resources
- Data storage in current and emerging non-volatile memories
- Emerging storage media: MRAM, RRAM, PCM, etc.
- Intra and inter-cloud networking
- Mobile networking and computing for cloud/fog/edge
- Security and privacy in the cloud/fog /edge infrastructure, services and storage
- Serverless computing and FaaS
- Software defined storage and networking
- SDN-enabled cloud data centers
- Virtualization of storage, networking and computing

Important Dates

Paper Submission: 12 October 2020
Notification: 25 January 2021
Camera Ready and Registration: 22 February 2021

How to Submit a Paper

All papers for technical symposia should be submitted via EDAS. Full instructions on how to submit papers are provided on the IEEE ICC2021 website: https://icc2021.ieee-icc.org/. You will select the desired symposium/track when submitting your manuscript.