IEEE GLOBAL COMMUNICATIONS CONFERENCE
8–12 December 2024
Cape Town, South Africa
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SAC Symposium: Cloud Computing and Networking

SYMPOSIUM CHAIRS AND CO-CHAIRS

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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, edge and fog 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 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/networking systems or lead to novel future developments are particularly encouraged.

TOPICS OF INTEREST

• Cloud data center architecture and networking

• Cloud and edge/fog computing systems

• Cloud management, orchestration, and automation

• Cloud federation, traffic characterization, and bridging

• Cloud system reliability modelling and data endurance

• Energy-efficient designs and resource optimization for edge/cloud computing and networking systems

• Machine learning, data mining for edge/cloud computing and networking systems

• Design and analysis of algorithms and architectures for edge/cloud computing and networking systems

• Elasticity and scalability of cloud resources

• Intra and inter-cloud networking

• Mobile networking and computing for edge/cloud systems

• Security and privacy edge/cloud infrastructures, services, and storage

• Serverless computing and function as a service (FaaS)

• Software defined storage and networking

• SDN-enabled cloud data centers

• Virtualization of storage, networking, and computing

IMPORTANT DATES

Deadline for paper submission: 1 April 2024

Date for notification: 1 August 2024

Deadline for final paper submission: 1 September 2024

SUBMISSION INSTRUCTIONS

All papers for technical symposia should be submitted via EDAS through the following link:

https://edas.info/N31420