IEEE International Workshop on

Cloud Computing Systems, Networks, and Applications (CCSNA)

Organized in conjunction with

IEEE Global Communications Conference (GLOBECOM 2014)

8-12 December 2014, Austin, Texas, USA

Workshop web: http://cloud.it.teithe.gr/

EDAS submission web link: https://edas.info/newPaper.php?c=17545

Paper submission deadline: **July 15, 2014**

Cloud Computing, as well as Cloud-inspired business models, enable on-demand access to a shared pool of resources, namely computing, storage, networks, services, and applications. With the advent of Cloud-based systems, cloud operators have been aiming at reliable, secured, privacy-preserving and cost-efficient cloud design and management. As the Cloud infrastructure aims at offering various IT resources as services, requirements of Cloud applications vary based on the resources which are requested as services. Thus, the resources may refer to heavy computation resources, massive storage resources, high-capacity network resources and so on. The heterogeneity of cloud applications leads to the challenge of holistic design of a robust Cloud system which can oversee and handle the diverse needs of numerous types of applications. On the other hand, these challenges enforce cooperation of various players in the Cloud system, each of which focuses on a different segment such as network, computing, applications, and systems. The Second International workshop on Cloud Computing Systems, Networks, and Applications (CCSNA-2014) aims at the crossroads between scientists, researchers, practitioners and students from diverse domains in Cloud computing research. The workshop aims at attracting contributions of system and network design that can support existing and future applications and services. Researchers are encouraged to submit original research contributions in all major areas, which include, but not limited to:

*Cloud computing systems and networking- principles, designs, analyses, and performance
-Theoretical analysis for cloud systems
-Cloud system and network design
-Optimization for cloud computing, networking, and applications
-Green cloud systems and networking
-Storage, data, and analytics for clouds design and networking
-Virtualization for cloud computing systems and networking
-Modeling and performance analysis for cloud system, network and storage
-Intra-cloud/inter-cloud computing and networking
-Cloud computing architectures and cloud solution design patterns
-Cloud migration, composition, federation, bridging, and bursting
-Cloud provisioning and migration
-Cloud DevOps
-Cloud system design with FPGA, GPU, APU
-Network Programmability, Software-Defined Networking and Virtual Ethernet Switching

*Big data, data centers, and cloud managements
-Big data storage and networking
-Real-time resource reporting and monitoring for cloud management
-Cloud quality management and service level agreement (SLA)
-Cloud configuration, performance, and capacity management
-Cloud workload profiling and deployment control
-Autonomic business process and workflow management in clouds
-Collaboration, management, and administration of clouds and services
-Quality of service on clouds and applications, including reliability, availability
-Scalability, performance, and load balance
-Knowledge engineering and data mining techniques and systems on clouds
-Data center network management, reliability, optimization, and bridging
-Distributed data center architectures
-Cloud traffic engineering and control-plane architectures

*Cloud services, applications, security, and interdisciplinary topics
-Cloud system and storage security
-Mobile cloud system design
-Cloud media and storage design
-Security, privacy, and compliance management for clouds
-Self-service cloud portal, dashboard, and analytics
-Infrastructure, platform, application, business, social, and mobile clouds
-Security, privacy, and compliance management for public, private, and hybrid clouds
-Innovative cloud applications and experiences
-Economic, business and ROI models for cloud computing
-Mobile-aware networking, protocols, and infrastructures
-Content and service distribution in clouds
-Audit, authentication and authorization in clouds
-Service-oriented architecture in clouds
-Cloud support for IoTs and their services
-Cloud for service discovery
-Image processing and efficient video transmission on clouds
-Multimedia service provisioning on clouds
-MapReduce
-Resilience, fault tolerance

*Surveys
-Surveys on any topics above

Submission Procedure

Submitted papers must represent original material which is not currently under review in any other conference or journal and has not been previously published. Paper length should not exceed five-page standard IEEE conference two-column format (including all text, figures, and references). Please see the Author Information page for submission guidelines in the IEEE GLOBECOM 2014 website http://www.ieee-globecom.org. All submitted papers will go through a peer review process. All accepted and presented papers will be included in the IEEE GLOBECOM 2014 proceedings and IEEE digital library. IEEE reserves the right to exclude an accepted and registered but not presented paper from the IEEE digital library.

Selected papers will be invited to be peer-reviewed for a special issue in IEEE Access and another journal special issue.

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Important Dates

Paper submission deadline: **July 15, 2014**

Author notification: **August 20, 2014**

Camera ready: **October 1, 2014**

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