

2013 International Conference on Cloud Computing and Big Data
FUZHOU LAKESIDE HOTEL
FuZhou, China
December 16-19, 2013

Call for Papers

"Cloud" is a common metaphor for an Internet accessible infrastructure (e.g. data storage and computing hardware) which is hidden from users. Cloud Computing makes data truly mobile and a user can simply access a chosen cloud with any internet accessible device. In Cloud Computing, IT-related capabilities are provided as services, accessible without requiring detailed knowledge of the underlying technology. Thus, many mature technologies are used as components in Cloud Computing, but still there are many unresolved and open problems. The Cloud Computing Association (www.cloudcom.org) aims to bring together researchers who work on cloud computing and related technologies. CloudCom-Asia (asia2013.cloudcom.org) aims to bring together researchers who work on cloud computing and related technologies.

● Sponsors

Fuzhou University
University of Stavanger
Fujian Normal University
Nanjing University of Post & Telecom
Chung Hua University
IEEE Computer Society
Cloud Computing Association
IEEE Cloud Computing Initiative
TSCGCC, IEEE Communications Society
IEEE Cloud Computing Initiative
Fuzhou City Government

● Important Dates

Submission: Sept. 25, 2013
Notification: Oct. 11, 2013

Camera-ready: Oct. 25, 2013

Author registration: Oct. 25, 2013

Workshop Proposals: June. 30, 2013

● Keynote Speakers

Academia:

Prof. Chunming Rong,
University of Stavanger (UiS)
Norway
Dr. Rajkumar Buyya
University of Melbourne
Australia
Dr. Jie Li
University of Tsukuba
Japan



Prof. Hai Jin

Huazhong University of Science and
Technology(HUST)
China



Dr. Cho - Li Wang

University of Hong Kong
China



Industrial:

Dr. Wu Chou
(Global Head of Huawei IT Lab
& Vice President & Chief IT Scientist, China)



● Special Issues

Best Paper Awards will be presented to high quality papers. Selected papers, after further extensions and revisions, will be published in special issues of the following prestigious journals
Journal of Internet Technology (ISI Impact Factor = 0.448)
International Journal of Cloud Computing (Scopus, EI)

● Topics

Architecture

- *Cloud Infrastructure as a Service
- *Cloud Platform as a Service
- *Cloud federation and hybrid cloud infrastructure
- *Programming models and systems/tools
- *Green data center
- *Networking technologies for data center
- *Cloud system design with FPGA, GPU, APU
- *Monitoring, management and maintenance
- *Economic and business models
- *Dynamic resource provisioning

MapReduce

- *Performance characterization and optimization
- *MapReduce on multi-core, GPU
- *MapReduce on hybrid distributed environments
- *MapReduce on opportunistic/heterogeneous computing systems
- *Extension of the MapReduce programming model
- *Debugging and simulation of MapReduce systems
- *Data-intensive applications using MapReduce
- *Optimized storage for MapReduce applications
- *Fault-tolerance & Self-* capabilities

Security and Privacy

- *Accountability
- *Audit in clouds
- *Authentication and authorization

- *Cryptographic primitives
- *Reliability and availability
- *Trust and credential management
- *Usability and security
- *Security and privacy in clouds
- *Legacy systems migration
- *Cloud Integrity and Binding Issues

Services and Applications

- *Cloud Service Composition
- *Query and discovery models for cloud services
- *Trust and Security in cloud services
- *Change management in cloud services
- *Organization models of cloud services
- *Innovative cloud applications and experiences
- *Business process and workflow management
- *Service-Oriented Architecture in clouds

Virtualization

- *Server, storage, network virtualization
- *Resource monitoring
- *Virtual desktop
- *Resilience, fault tolerance
- *Modeling and performance evaluation
- *Security aspects
- *Enabling disaster recovery, job migration
- *Energy efficient issues

● Submission & Publication

Manuscripts need to be prepared according to the IEEE CS format ([Format Link](#))
For regular papers, the page should be 6-8 pages.
For short papers, the page should be 4-6 pages.
For workshops, the page should be 6 pages.
For poster and demo, the page limit will be 4 pages.

HPC on Cloud

- *Load balancing for HPC clouds
- *Middleware framework for HPC clouds
- *Scalable scheduling for HPC clouds
- *HPC as a Service
- *Performance Modeling and Management
- *Programming models for HPC clouds
- *HPC cloud applications
- *Optimal cloud deployment for HPC

Big Data:

- *Machine learning
- *Data mining
- *Approximate and scalable statistical methods
- *Graph algorithms
- *Querying and search
- *Data Lifecycle Management for Big Data (sources, cleansing, federation, preservation, privacy, etc.)
- *Frameworks, tools and their composition
- *Storage and analytic architectures
- *Performance and debugging
- *Hardware optimizations for Big Data (multi-core, GPU, networking, etc.)
- *Data Flow management and scheduling

All accepted papers will be published by IEEE CPS (EI).

