International Conference on Cloud Computing and Big Data (CCBD) 2014

http://CCBD2014.com/

November 12-14, 2014, Wuhan, China

Cloud Computing provides a scalable services consumption and cost-effective delivery platform for services computing. Big data technologies offer the promise of providing valuable insights for science, engineering, medicine, finance and business. Both technologies continue to converge and mutual promotion. As one of the international events that sponsored by the Chinese Institute of Electronics, the International Conference on Cloud Computing and Big Data (CCBD2014) is a cross-area international forum on cloud computing and big data, which is technical-sponsored by IEEE Computer Society. It is an annual event that has been held for 4 years, and it will be held on November 12-14, 2014 at Wuhan University, Wuhan, China.

CCBD2014 aims at bringing together researchers, developers, users, and practitioners interested in cloud computing and big data, and formally exploring various potentials about big data in the cloud from the perspective of both academic and industry. Relevant topics include but are not limited to:

---- Architecture & Foundations of Cloud Computing and Big Data---

Cloud Platform as a Service Cloud
Infrastructure as a Service
Virtualization of Hardware & Software Resources
Service-Oriented Architectures in cloud computing
Green Cloud Computing
Networking Technologies for Data Center
Monitoring, Management and Maintenance of Cloud Platform
Economic and Business Models in Cloud Computing
Sensors, Devices and Embedded Systems Design in Cloud Computing
Energy-efficient Cloud Computing for Big Data
New Programming Models and Environments for Cloud Computing to Support Big Data
High Performance/Parallel Computing Platforms for Big Data
Software Techniques and Architectures in Cloud/Grid/Stream Computing
Open Platforms and System Architectures to Support Big Data
Hardware Optimizations for Big Data (Multi-core, GPU, Networking, etc.)
Novel Theoretical and Computational Models for Big Data

-----Management, Services & Tools in Cloud Computing and Big Data-----

Software Engineering in Cloud Computing

Quality of Service in Cloud Computing

Programming Models, Systems and Tools in Cloud Computing

Innovative Cloud Applications and Experiences

Job Scheduling, Load Balancing, Performance Evaluation & Improvement in Cloud Computing

Business Process and Workflow Management in Cloud Computing

Query and Discovery Algorithms for Cloud Services

Cloud Quality Measurement, Evaluation and Management

Cloud Migration

Novel Data Model and Databases for Emerging Hardware to Support Big Data

Interfaces to Database Systems and Analytics Software Systems for Big Data

Information Integration and Heterogeneous and Multi-structured Data Integration

Data management for Cloud Computing

Database Management Challenges: Architecture, Storage, User Interfaces

-----Security, Privacy, Trust & Quality in Cloud Computing and Big Data-----

Hardware and Software Reliability, Verification and Testing in Cloud Computing

Trusted Computing & Autonomic Computing in Cloud Computing

Trust and Credential Management

Fault Diagnosis, Health Monitoring & Fault tolerance in Cloud Computing

Security and Privacy in Cloud Computing

Protection, Integrity and Privacy Standards and Policies for Big data

Intrusion Detection for Gigabit Networks

Anomaly and APT Detection in Very Large Scale Systems

Threat Detection using Big Data Analytics

Privacy Threats of Big Data

Privacy Preserving Big Data Collection/Analytics

HCI Challenges for Big Data Security & Privacy

------Knowledge Discovery & Data Engineering in Cloud Computing and Big Data-----

Social Web Search and Mining

Web Search

Algorithms for Big Data Search

Large Scale Distributed, Knowledge Management.

Big Data Search Architectures, Scalability and Efficiency

Data Acquisition, Integration, Cleaning, and Best Practices

Visualization Analytics for Big Data

Computational Modeling and Data Integration

Large-scale Recommendation Systems and Social Media Systems

Cloud/Grid/Stream Data Mining- Big Velocity Data

Link and Graph Mining for Big data

Multimedia and Multi-Structured Data-Big Variety Data

Internet-Based Knowledge Engineering in Cloud Computing

Data and Information Quality for Big Data

-----Business Model and Applications in Cloud Computing and Big Data------

Case Studies on Cloud Applications

Innovative Cloud Computing Application and Experience

Big Data Industry Standards Experiences with Big Data Project Deployments

Complex Big Data Applications in Science, Engineering, Medicine, Healthcare, Finance, Business, Law, Education, Transportation, Retailing

Big Data Analytics in Business Enterprises, Government, Public Sector and Society in General

Real-life Case Studies of Value Creation through Big Data Analytics

Big Data as a Service

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Publication & Submission

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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.

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

The extended version of distinguished papers will be recommended to Chinese Journal of Electronics for publication after the conference.

Honorary Chair

Deren Li, Chinese Academy of Engineering, China

General Chairs

Ruimin Hu, Wuhan University, China

Ivan Stojmenovic, University of Ottawa, Canada

Program Chairs

Shi Ying, Wuhan University, China

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Workshop Chair

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CONFERENCE SECRETARIES

Runhua Lin, Chinese Institute of Electronics, China

Lulu He, Wuhan University

IMPORTANT DATES UPDATE

Submission deadline: ~~1 July, 2014~~ **3 Aug, 2014**

Notification of acceptance: ~~5 Aug. 2014~~ **15 Sept. 2014**

Final manuscript due: **21 Sept. 2014**

Conference: **12 – 13 Nov. 2014**