

## 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

=====

**Publication & Submission**

=====

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

David Chadwick, University of Kent, UK

**Program Vice Chairs**

Rong Peng, Wuhan University, China

GanSen Zhao, South China Normal University, China

**Publicity Chairs**

Mengchi Liu, Carleton University, Canada

Bing Li, Wuhan University, China

**Publication Chairs**

Jin Liu , Wuhan University, China

Xiao Liu, East China Normal University, China

**Workshop Chair**

Zibin Zhen, The Chinese University of Hong Kong, China

**Panel Chair**

Songlin Hu, The Institute of Computing Technology, Chinese Academy of Sciences, China

**Local Organization Chair**

Zhijian Wu, Wuhan University, China

**Finance and Registration Chair**

Wenting Lian, The Chinese Institute of Electronics, China

**Steering Committee**

Deyi Li (Chair), Chinese Academy of Engineering, China

A Min Tjoa, Vienna University of Technology, Vienna

Maria Raffai, Szechenyi Istvan University, Hungarian

Chunming Hu, Beihang University, China

Jie Wu, Temple University, USA

Weiming Zheng, Tsinghua University, China

Giannong Cao, Hong Kong Polytechnic University, China

Shi Ying, Wuhan University, China

**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: 13 – 14 Nov. 2014