

# The 7th International Conference on Cloud Computing and Big Data (CCBD2016)

November 16-18, 2016, Macau

<http://www.cis.umac.mo/ccbd2016/>

## Call for Papers

### Honorary Chairs

Wei Zhao, University of Macau  
Wen Gao, Academician, Chinese Academy of Engineering  
Hong Mei, Academician, Chinese Academy of Sciences

### General Chairs

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Geoffrey Charles Fox, Indiana University  
Benjamin W. Wah, The Chinese University of Hong Kong  
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### Program Chairs

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Ernesto Damiani, University of Milan  
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Ke Liu, National Science Foundation of China

Accepted papers can be presented in Chinese.

\*论文由IEEE出版(EI), 部分论文选送中国电子学报(SCI)及其他SCI期刊。  
\*接受的论文可以用中文宣读。



中國電子學會  
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澳門大學  
UNIVERSIDADE DE MACAU  
UNIVERSITY OF MACAU

In recent years, Big Data Analytics, Cloud Computing, Mobile/IoT, and their convergence have emerged as major drivers for enterprise transformation and innovation in both business and IT worlds. Enterprises' competitiveness is increasingly determined by their abilities to leverage these technologies. IDC describes the platform that supports the convergence of these technologies as the third platform. It is accessed from mobile devices, utilizes big data, and is cloud based. IoT (Internet of Things), Mobile and Social network are major sources of Big Data. Cloud Computing provides a scalable services consumption model and cost-effective delivery platform. Big data analytics offers the promise of providing valuable insight for science, engineering, medicine, finance, business, government etc. Successful application of these technology helps enterprises understand customers' needs and sentiment, make right decisions in time, improve process efficiency, allow them to mass-customize their services, and improve products/services to excel in the fast changing competitive landscape.

The 7th International Conference on Cloud Computing and Big Data (CCBD2016) is co-sponsored by University of Macau and the Chinese Institute of Electronics. The CCBD2016 will be held at University of Macau on November 16-18, 2016. During the conference, participants will also enjoy the privilege of attending the 63rd Macau Grand Prix (November 17-20, 2016). **The conference proceedings will be published by IEEE CPS and submitted for indexing to EI. Selected papers will be recommended to the Chinese Journal of Electronics (indexed by SCI) and several international journals (indexed by SCI or EI).**

Topics of interest of the CCBD2016 conference include, but are not limited to:

### Architecture & Foundation of Cloud Computing and Big Data

- Infrastructure as a Service, Green Cloud Computing, Monitoring, Management and Maintenance of Cloud Platform
- Service-Oriented Architectures in cloud computing
- Software Defined Storage, Software Defined Network, and Software Defined Data Center
- Performance Improvement and Hardware Optimizations for Cloud Computing and Big Data
- Integrated Platform for Cloud Computing, Big Data, IoT and Social Networks
- Sensors, Devices and Embedded Systems Design in Cloud Computing
- Energy-efficient Cloud Computing for Big Data
- Open Platforms and System Architectures to Support Big Data
- Novel Theoretical and Computational Models for Big Data; Best Practices for Migration to Cloud

### Software Engineering, Tools & Services for Cloud Computing and Big Data

- Platform as a Service, DevOps, and API Management; Software Engineering in Cloud Computing
- Job Scheduling, Load Balancing, Performance Evaluation & Improvement in Cloud Computing
- Novel Data Model and Databases for Emerging Hardware to Support Big Data
- Information Integration and Heterogeneous and Multi-structured Data Integration
- Novel Programming Model, Quality Measurement, Evaluation and Management
- Information lifecycle management for Cloud Computing and Big Data
- Business Process and Workflow Management in Cloud Services
- Innovative Cloud Applications, Novel Theoretical and Computational Models for Big Data

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

- Big Data Information Life Cycle Management; Social Web Search and Mining; Algorithms for Big Data Search
- Big Data Search Architectures, Scalability and Efficiency
- Big Data Analytic Algorithms, Knowledge Discovery & Data Engineering
- Visualization Analytics for Big Data; Computational Modeling and Data Integration
- Large Scale Distributed, Knowledge Management; Large-scale Recommendation Systems and Social Media Systems
- Cloud/Grid/Stream Data Mining - Big Velocity Data
- Multimedia and Multi-Structured Data - Big Variety Data
- Internet-Based Knowledge Engineering in Cloud Computing

### Security, Privacy, Trust & Quality of Cloud Computing and Big Data

- Hardware/Software Reliability, Verification and Testing in Cloud Computing and Big Data
- Trusted Computing & Autonomic Computing in Cloud Computing and Big Data
- Fault Tolerance in Cloud Computing and Big Data
- Security and Privacy in Cloud Computing and Big Data
- Threat Detection using Big Data Analytics
- Privacy Preserving Big Data Collection/Analytics
- HCI Challenges for Big Data Security & Privacy
- Protection, Integrity and Privacy Standards and Policies for Big data

### Business Models and Applications for Cloud Computing and Big Data

- Innovative Business Models and Applications of Cloud Computing and Big Data in Different Domains
- API Management, API Ecosystem, and API Economy
- Industrial IoT and Analytics

### Processing and Analysis of Big Data

- Machine Learning; Pattern Recognition; Image Processing; Classification; Clustering; Dimensionality Reduction
- Genetic Algorithm; Neural Networks; Prediction Model; Time Series Analysis; Regression Analysis
- Social Network Analysis; Association Rules Analysis; A/B Testing
- System Simulation; Optimization; Space Analysis; Natural Language Processing; MapReduce

### Important Dates

- **Submission deadline:** June 20, 2016 August 20, 2016
- **Notification of acceptance:** August 31, 2016
- **Final manuscript due:** September 12, 2016
- **Conference Date:** November 16 -18, 2016