

The Sixth International Conference on Advanced Cloud and Big Data (CBD2018)

Final Technical Program

Saturday August 11, 2018

12:00 – 20:00	Registration: Lanzhou University Tsuiying Hotel
18:00 – 20:00	Reception Dinner: Lanzhou University Danguiyuan Restaurant (the second floor)

Sunday August 12, 2018

08:30 – 17:30	Registration (Lanzhou University Tsuiying Hotel)		
09:00 – 09:40	Opening Plenary & Group Photo (Main Conference Room)		
09:40 – 10:40	Keynote Speech: Prof. Wei Zhao, Big Data: Its Science, Industry, and Business Chair: Prof. Junzhou Luo (Main Conference Room)		
10:40 – 10:55	Coffee/Tea Break		
10:55 – 11:55	Keynote Speech: Prof. Jiannong Cao, Cross-Domain Big Data Fusion and Analytics Chair: Prof. Qingguo Zhou (Main Conference Room)		
12:00 – 13:00	Lunch Buffet (Lanzhou University Danguiyuan Restaurant)		
14:00 – 15:00	Industry Forum (Main Conference Room)		
15:00 – 15:15	Coffee/Tea Break		
15:15 – 17:30	Session A1: (Room A)	Session B1: (Room B)	Session C1: (Room C)
18:30 – 21:00	Conference Banquet (Ningwozhuang Hotel)		

Monday August 13, 2018

09:30 – 10:30	Keynote Speech: Prof. Wanlei Zhou, Modelling the Propagation of Worms, Rumours and Truths in Networks Chair: Prof. Bin Hu (Main Conference Room)		
10:30 – 10:45	Coffee/Tea Break		
10:45 – 11:45	Keynote Speech: Prof. Jun Shen, Smart Micro Learning for Open Education Resources Chair: Prof. Fang Dong (Main Conference Room)		
12:00 – 13:00	Lunch Buffet (Lanzhou University Danguiyuan Restaurant)		
13:30 – 15:30	Session A2: (Room A)	Session B2: (Room B)	Session C2: (Room C)
15:30 – 15:45	Coffee/Tea Break		
15:45 – 17:45	Session A3: (Room A)	Session B3: (Room B)	Session C3: (Room C)
18:30 – 20:00	Dinner (Lanzhou University Danguiyuan Restaurant)		

Tuesday August 14, 2018

09:30 – 11:30	Social Event
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Note: All the conference rooms are in Lanzhou University Science Museum. The Building is in the middle of Lanzhou University within five minutes' walking distance from Tsuiying Hotel.

Main Conference Room: Auditorium on the second floor of Science Museum

Room A: 202 room on the second floor of Science Museum

Room B: 203 room on the second floor of Science Museum

Room C: 204 room on the second floor of Science Museum

Session Schedule & Locations, August 12, 2018

Session A1: Cloud Computing and Applications I

Location: Room A

Time: 15:15-17:30 pm, August 12, 2018

Session Chair: Yi Zhang

Load-Balanced Cluster for Scale-Out Storage of Knowledge
Zheng Xiong, Guocheng Zhu, Wei Yu, Sen Wang and Zhihong Chong.

CASS: A cooperative hybrid storage system consisting of an SSD and a SMR drive
Wenguo Liu, Lingfang Zeng and Dan Feng.

An In-network Aggregation Scheme for Erasure Coding Storage Systems in Data Centers
Junxu Xia, Chendie Yao and Jiangfan Li.

Service Deployment for Latency Sensitive Applications in Mobile Edge Computing
Jingya Zhou, Jianxi Fan, Jin Wang and Juncheng Jia.

A Scalable and Hierarchical Load Balancing Model for Control Plane of SDN
Qiaozhi Xu, Lin Li, Jiamei Liu and Junxing Zhang.

Scheduling Bag-of-Tasks applications with Budget constraints on Hybrid Clouds
Yi Zhang, Jin Sun, Zebin Wu and Li Chen.

Parallel K-Medoids Improved Algorithm Based on MapReduce
Yonghan Zhao, Bin Chen and Mengyu Li.

The Virtual Machine Placement Algorithm based on equivalent resource model in the offloading Data Center of Mobile Cloud Environment
Changming Zhao and Hao Yang.

Session B1: Big Data and Applications I

Location: Room B

Time: 15:15-17:30 pm, August 12, 2018

Session Chair: Quanli Gao

The Design of Distributed Power Big Data Analysis Framework and its Application in Residential Electricity Analysis

Peng Wu and Jing Tan.

A SINS-assisted Fast Acquisition Method for GNSS Signals Based on Compressed Sensing

Junbing Cheng, Deng-ao Li, Junmin Zhao and Zheng Wei.

Track Quality Evaluation Method Research on Tactical Data Link

Wang Jing, He Chenglong, Wu Wei and Zhang Guilin.

A Query Construction method based on Data Dependency for Gesture Interaction

Cheng Chunling, Wang Xiyang and Yuan Chenhui.

A News Event Clustering Algorithm based on Semantic Relationship Graph

Liu Zhikang and Cheng Chunling.

A Value-Attribute Mapping Method Based on Inverted Index

Limin Wang, Mei Wang, Dehua Chen and Qiao Pan.

Multi-view Learning based Edge Storage Management Strategy

Quanli Gao, Ling Gao, Tao Xue, Xinjuan Zhu, Xueqing Zhao and Rui Cao.

A Classifier Using Online Bagging Ensemble Method for Big Data Stream

Yanxia Lv, Sancheng Peng, Cuirong Wang, Jiemin Liu, Ying Yuan, and Cong Wang

Session C1: Social Computing and Applications

Location: Room C

Time: 15:15-17:30 pm, August 12, 2018

Session Chair: Youquan Wang

Research on Community Detection Algorithm for Complex Networks with Multi-Attribute Nodes

CHEN Dong-ming, YAN Yun, FANG Bo, HUANG Xin-yu, WANG Dong-qi.

Analysis of Shareholders Structure in Chinese Stock Market from a Complex Network Perspective

Lei Pan, Danhua Wang, Qi Wang and Tianyu Hu.

Comparative Analysis of Chinese Airway Network Based on Complex Network

Jiayi Wu, Yong Yang and Kaijun Xu.

Building Corporate Reputation on the Internet: Is the Claimed Sales-Ranking Trustworthy?

Youquan Wang, Changjian Fang, Dongqin Shen, Zhiang Wu and Jie Cao.

Online Tourism Purchase Analysis and Prediction

Guixiang Zhu, Zhiang Wu, Jie Cao and Jun Gu.

Spatio-Temporal Pattern Analysis and Prediction for Urban Crime

Zhe Li, Tianfan Zhang, Zhi Yuan, Zhiang Wu and Zhen Du.

Community Detection Method Based on User Influence Probability and Similarity

Sheng-Chen Yang, Lei-Lei Shi and Lu Liu.

A Semantic-based Adaptive Recommendation Mechanism for Location Service

Bing Jia, Kai Niu and Lifei Hao.

Session Schedule & Locations, August 13, 2018

Session A2: Cloud Computing and Applications II

Location: Room A

Time: 13:30-15:30 pm, August 13, 2018

Session Chair: Feng Yu

Using PVS for Modeling and Verifying Cloud Services and Their Composition

M. Saqib Nawaz and Meng Sun.

From Network Perspective to Optimize Shuffling Phase in MapReduce

Haifeng Wang and Yunpeng Cao.

Stock Transaction Analysis System based on Hadoop and Capital flow

Feng Yu, Sheng-lin Cao, Shu-cheng Huang and Peng-fei Gan.

SARF: A Spark based Recommendation Framework in the Cloud

Jieyao Zhou, Yifei Lu, Ka Bian and Lei Qian.

A Cloud Resource Allocation Method Supporting Sudden and Urgent Demands

Jing Chen.

Exploration of secured Workflow scheduling models in cloud environment: a survey

Akindipe Olusegun Francis, Bugingo Emmanuel, Defu Zhang, Wei Zheng, Yingsheng Qin, and Dongzhan Zhang.

Reconstruction of 12-lead electrocardiogram based on GVM

Zijian Xu, Rui Zhou, Yunshan Cao, Binbin Yong, Xin Wang and Qingguo Zhou.

Session B2: Cloud Security and Privacy I

Location: Room B

Time: 13:30-15:30 pm, August 13, 2018

Session Chair: Gaofeng He

One quantifiable security evaluation model for cloud computing platform

Aobing Sun, Guohong Gao, Tongkai Ji and Xuping Tu.

A Secure and Efficient ID-Based Signature Scheme with Revocation for IOT Deployment

Xiaodong Yang, Jinli Wang, Tingchun Ma, Chunlin Chen, Caifen Wang.

Research On A Trust Model Based On the Qos and Malicious Node Deletion

Jiang Jing and Yu Yonghong.

A New Distributed Intrusion Detection Method Based on Immune Mobile Agent

Yongzhong Li, Miao Du and Jing Xu.

An Adaptive Blind Watermarking Algorithm Based on DCT and Its Application in Big Data

Yongzhong Li, Yi Li and Xuan Luo.

CLOAK: Visible Touching and Invisible Protecting: Cloud Privacy Protection Based on LSB and Chaotic Approach

Meiya Dong, Jumin Zhao, Dengao Li, Biaokai Zhu and Zhaobin Liu.

Detecting Repackaged Android Malware based on Mobile Edge Computing

Gaofeng He, Lu Zhang, Bingfeng Xu and Haiting Zhu.

Session C2: Machine Learning & Data Mining & Miscellaneous I

Location: Room C

Time: 13:30-15:30 pm, August 13, 2018

Session Chair: Chao Tan

A Parallel Approach on Clustering Traffic Data Stream based on the Density

Jiamin Lu, Jun Feng, Jin Zhang, Peipei Xia and Xianjian Xiao.

DeepDiagnosis: DNN-based Diagnosis Prediction from Pediatric Big Healthcare Data

Jia Shi, Xiaoliang Fan, Jinzhun Wu, Jian Chen and Wenbo Chen.

Hierarchy Training Strategy in Image Classification

Luyu Fan, Chunfang Li and Minyong Shi.

Study On Most Important Factor And Most Vulnerable Location For A Forest Fire Case Using Various Machine Learning Techniques

Hanchao Li, Xiang Fei and Chaobo He.

A method of rainfall runoff forecasting based on deep convolution neural networks

Xiaoli Li, Zhenlong Du and Guomei Song.

A Hybrid BLSTM-C Neural Network Proposed For Chinese Text Classification

Xutao Wang, Yue Li and Pengjian Xu.

LKLR: A Local tangent space alignment Kernel Least-squares Regression algorithm

Chao Tan and Genlin Ji

Session A3: Big Data and Applications II

Location: Room A

Time: 15:45-17:45 pm, August 13, 2018

Session Chair: Yuxiang Wang

A Sample-Based Approximate Ranking Method for Large Graphs

Rujun Sun, Lufei Zhang and Zuoning Chen.

Detecting network-wide abnormal behavior for network data streams

based on sketch

Aiping Zhou, Yiwei Shi, Huisheng Zhu, Jinhai Li and Chengang Zhu.

Comparative Analysis of Different Sketch Methods in Practical Use

Yuan Zhang, Haiting Zhu, Nan Bao and Lu Zhang.

Research On Enterprise Knowledge Unified Retrieval Based On Industrial Big Data

Zhang Xu.

A Learning-based Semantic Approximate Query over RDF Knowledge Graph

Zhangpeng Ge and Yuxiang Wang, Haijiang Yan, Xiaoliang Xu.

Research on distributed algorithm for automatic Optimization of Turfgrass introduction

Wei Linjing, Dong Wenke, Zhou Hui, Gao Zhenni, Chen Lei.

New pruning methods for Mining Minimal Functional Dependencies from Large-Scale Distributed Data

Feng Cheng and Zhe Yang.

Session B3: Cloud Security and Privacy II

Location: Room B

Time: 15:45-17:45 pm, August 13, 2018

Session Chair: Dian Shen

An Cooperative Deep Belief Network For Intrusion Detection

Xudong Yang, Ling Gao, Hai Wang, Jie Zheng and Rui Cao.

A Mutual Authentication Method For Local MAC Address Allocation

Xinran Fan and Zhengyou Xia.

Homomorphic Hash and Blockchain Based Authentication Key Exchange Protocol for Strangers

Hailong Yao, Caifen Wang, Bo Hai and Shiqiang Zhu.

Fingerprinting Network Device Based on Traffic Analysis in High-speed Network Environment

Yiting Zhang, Ming Yang, Xiaodan Gu, Peilong Pan and Zhen Ling.

Privacy Preservation of Location Information Based on MinHash Algorithm in Online Ride-Hailing Services

Miaomiao Li and Licheng Wang.

Privacy Preserving Profile Matching for Social Networks

Taolin Guo, Kai Dong, Lihe Wang, Ming Yang and Junzhou Luo.

Load-aware AP Scheduling in Green WLANs

Weihong Xu, Xiaomin Shi, Ming Yang and Wenjia Wu.

Session C3: Machine Learning & Data Mining & Miscellaneous II

Location: Room C

Time: 15:45-17:45 pm, August 13, 2018

Session Chair: Rui Zhou

Improved Weight Slope One Algorithm of Integrating Expert Similarity and Item Characteristics

Weiqian Li, Ling Gao, Hai Wang, Ziyun Zhang and Yi Zhang.

A new Structure for Internet video traffic classification using Machine learning

Zheng Wu, Yuning Dong, Lingyun Yang, Pingping Tang.

SDCAE: Stack Denoising Convolutional Autoencoder Model for Accident Risk Prediction via Traffic Big Data

Chao Chen, Xiaoliang Fan, Chuanpan Zheng, Lujing Xiao, Ming Cheng and Cheng Wang.

Anomaly Detection using LSTM in IP Networks

Gang QIN, Ying CHEN and Yu-Xin LIN.

A Stock Trading Intention Recognition Model based on data Clustering
Sheng-lin Cao, Li-yan Liu, Feng Yu and Xue-mei Ma.

Texture Recognition and Classification Based on Deep Learning
Gaoming Zhu, Bingchan Li, Shuai Hong and Bo Mao.

TC and PPGL Detection Based on Machine Learning Models
Xin Wang, Binbin Yong, Yunshan Cao, Gaofeng Zhang and Qingguo
Zhou.

A Deep Learning Method for Chinese Singer Identification
Zebang Shen, Binbin Yong, Gaofeng Zhang, Rui Zhou, and Qingguo
Zhou