### BIGCOM 2018 Conference Program

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| Day1: Tuesday, August 7 |
| **Opening Remarks and Keynote 1** |
| Time | Title and Speaker/Authors | The Venue |
| 8:00-9:00 | Registration | MTCCAuditorium |
| 9:00-9:30 | Opening Remarks |
| 9:30-10:30 | Keynote 1: Scalable Algorithms in the Age of Big Data, Network Sciences, and Machine Learning |
| 10:30- 10:45 | Coffee Break |
| **Session 1:** Systems and Pattern Recognition(i) |
| Time | Title and Speaker/Authors | The Venue |
| 10:45-11:00 | USER-TRANSITION BEHAVIOUR ANALYSIS IN DATA PUBLICATION USING BIPARTITE GRAPH. Charles Roland Haruna, Mengshu Hou, Michael Kpiebaareh and Lawrence Tandoh (University of Electronic Science and Technology of China). | MTCCAuditorium |
| 11:00-11:15 | Adaptive Compressed Classification for Energy Efficient Activity Recognition in Wireless Body Sensor Networks. Ling Xiao, Kai Wu and Yu Meng (Hunan University). |
| 11:15-11:30 | A Framework for Enhancing Word Embeddings with Task-specific Information. Xuan Zhang, Chunhong Zhang, Chenchen Guo and Yang Ji (Beijing University of Posts and Telecommunications). |
| 11:30-11:45 | Real Time Object Detection Based on FPGA with Big Data. Peiyue Zhang, Zhan Xu, Pengcheng Liu, Yiyang Zhao (Beijing Information Science and Technology University), Lian Wang, Yuntao Ma and Jian Wang (Simpleedu Co). |
| 11:45-14:30 | Lunch |
| **Session 2:** Systems and Pattern Recognition(ii) |
| Time | Title and Speaker/Authors | The Venue |
| 14:30-14:45 | Demand Estimation of Public Bike-Sharing System Based on Temporal and Spatial Correlation. Xiawen Yao, Xingfa Shen(Hangzhou Dianzi University), Tian He (University of Minnesota) and Sang Hyuk Son (Daegu Gyeongbuk Institude of Science and Technology). | MTCCAuditorium |
| 14:45-15:00 | Supervision of Webcasting-Anchor Behavior Evaluation Based on Barrage Emotion Analysis. Chunlei Zhao, Yunlong Li, Ruiqi Hong, Jian Zhang and Liangyi Gong (Tianjin University of Technology). |
| 15:00-15:15 | Control with Gestures: A Hand Gesture Recognition System Using Off-the-Shelf Smartwatch, Peide Zhu, Hao Zhou, Shumin Cao, Panlong Yang (University of Science and Technology of China) |
| 15:15-15:30 | A novel risk assessment and risk factors analysis model for Heart failure based on Apache Spark. Dengao Li (Taiyuan University of Technology), Xinyan Liu (Taiyuan University of Technology), Wenjing Li (University of California), Jumin Zhao(Taiyuan University of Technology) and Jie Zhou(Taiyuan University of Technology). |
| 15:30-15:45 | StaCover: Mobile Energy-sharing Cabinets Deployment with Public Bike System. Siwen Zheng, Jianhui Zhang, Jiayu Gan and Tianhao Zhang (Hangzhou Dianzi University). |
| 15:45-16:00 | Coffee Break |
| **Session 3:** Wireless Networks and Wireless Signal |
| Time | Title and Speaker/Authors | The Venue |
| 16:00-16:15 | Signal Tracking Using Commodity WiFi. Wenqi Bi, Xiang-Yang Li, Panlong Yang, Guang Li, Hao Zhou, Yichang Li and Ning Xiao (University of Science and Technology of China). | MTCCAuditorium |
| 16:15-16:30 | Adaptive Coupling Model of Time Synchronization and Topology Control in Large-scale Wireless Sensor Networks. Zhaobin Liu, Wenzhi Liu(Suzhou Vocational University), Qiang Ma, Gang Liu and Ligang Fang (Tsinghua University). |
| 16:30-16:45 | On Measurement of the Spatio-Frequency Property of OFDM Backscattering. Xiaoxue Zhang, Nanhuan Mi, Xin He and Panlong Yang (University of Science and Technology of China). |
| 16:45-17:00 | Global Wi-Fi Positioning Method Based on Online Clustering Algorithm. Jiaxuan Wu and Yunfei Feng (Iowa State University). |
| 17:00-17:15 | Outage Probability Analysis of Decode-and-Forward Relaying Systems with Energy Harvesting.Gefan Cheng, Hao Sun, Xin He, Weiwei Jiang, Xiaobo Zhou, Meng Cheng (Anhui Normal University) and Panlong Yang (University of Science and Technology of China). |

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| Day2: Tuesday, August 8 |
| **Keynote 2** |
| Time | Title and Speaker/Authors | The Venue |
| 8:00-9:30 | Registration | MTCCAuditorium |
| 9:30-10:30 | Keynote 2: Reliability and efficiency problems in cloud and data-processing systems |
| 10:30- 10:45 | Coffee Break |
| **Session 4:** Systems and Pattern Recognition(ii) |
| Time | Title and Speaker/Authors | The Venue |
| 10:45-11:00 | Online Guaranteed-Delivery Advertising Under Frequency Capping. Wenbin Shi, Yiliang Yuan, Haisheng Tan, Hong Zhang, Ge Chen and Hao Zhou (University of Science and Technology of China). | MTCCAuditorium |
| 11:00-11:15 | Spotlight: Multiple-object Localization by Mobile Photo Fusion. Jiaxi Gu (Northwestern Polytechnical Universit), Lan Zhang (University of Science and Technology of China), Jiliang Wang (Tsinghua University), Zhiwen Yu (Northwestern Polytechnical Universit), Xiaozhe Xin (Tsinghua University) and Yunhao Liu (Tsinghua University). |
| 11:15-11:30 | Research and Implementation of A Brand Normalization Method across E-commerce Platforms. Zhuang Li, Ruibo Liang, Heng Guan, Zhibin Zhao, Lan Yao and Tiezheng Nie (Northeastern University). |
| 11:30- 14:30 | Lunch |
| **Session 5:** Datacenter and Edge Computing |
| Time | Title and Speaker/Authors | The Venue |
| 14:30-14:45 | SFNet: A VLC enabled Hybrid Network Structure for Data Centers. Yudong Qin (National University of Defense Technology), Deke Guo (National University of Defense Technology), Xu Lin(Xidian University) and Geyao Cheng (National University of Defense Technology). | MTCCAuditorium |
| 14:45-15:00 | Spatiotemporal Cyberspace Situation Awareness Mechanism for Backbone Networks. Xueyu Li, Xu Zhang and Dongbin Wang (Beijing University of Posts and Telecommunications). |
| 15:00-15:15 | Automatic Matching Method of Ocean Observation Elements Based on Edge Computing. Zhijin Qiu, Tong Hu, Suiping Qi (Qilu University of Technology), Shiyong Liu, Xupeng Wang and Zhongwen Guo (Ocean University of China). |
| 15:15-15:30 | A Flexible Resource Allocation Mechanism with Performance Guarantee in Cloud Computing. Meixuan Li, Yu-E Sun, He Huang, Hansong Guo, Xiaocan Wu and Jingmei Cui. |
| 15:30-15:45 | Geo-Edge: Geographical Resource Allocation on Edge Caches for Video-on-Demand Streaming. Yuanxing Zhang, Kaigui Bian, Hu Tuo, Bin Cui, Lingyang Song and Xiaoming Li (Peking University). |
| 15:45-16:00 | Coffee Break |
| **Session 6:** Machine Learning and Algorithm |
| Time | Title and Speaker/Authors | The Venue |
| 16:00-16:15 | Deep Learning based Parking Prediction on Cloud Platform. Jiachang Li, Jiming Li and Haitao Zhang (Beijing University of Posts and Telecomm). | MTCCAuditorium |
| 16:15-16:30 | Computing Platforms for Big Data Analytics in Electric Vehicle Infrastructures. Md Muzakkir Hussain, Mohammed Saad Alam, M.M.Sufyan Beg and Mahesh Krishnamurthy. |
| 16:30-16:45 | Low-rank Tensor Estimation via Generalized Norm/Quasi-norm Difference Regularization. Yi Cen(Minzu University of Chin), Yigang Cen (Beijing Jiaotong University), Ke Wang (Beijing University of Posts and Telecommunications,), Jincong Li (Minzu University of Chin), Shiming Chen (East China Jiaotong University), Linnan Zhang(Guizhou University) and Dan Tao (Beijing Jiaotong University). |
| 16:45-17:00 | Tarot: A General Aggregation Model under Performance Variations. Jiangfan Li, Junxu Xia, Chendie Yao and Deke Guo (National University of Defense Technology). |
| 17:00-17:15 | Building Sentiment Lexicon with Representation Learning Based on Contrast and Label of Sentiment. Xingfu Wang, Jing Chen, Ammar Hawbani, Fuyou Miao and Chenxi Shao (National University of Defense Technology). |
| 17:15-17:30 | Automated diagnosis of congestive heart failure based on deep convolution neural network. Dengao Li(Taiyuan University of Technology), Jie Zhou (Taiyuan University of Technology), Wenjing Li (University of California), Jumin Zhao (Taiyuan University of Technology), Xinyan Liu and Yantao Li (Taiyuan University of Technology). |

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| Day3: Thursday, August 9 |
| **Session 7:** Security and Privacy(i)  |
| Time | Title and Speaker/Authors | The Venue |
| 8:30-8:45 | A Privacy Enforcement Framework for Android Systems Using Symbolic Execution-based Instrumentation. Lei Qin, Yan Xiong, Wenchao Huang and Zhaoyi Meng (University of Science and Technology of China). | MTCCAuditorium |
| 8:45-9:00 | A Formal Framework for State Continuity of Protected Modules. Jiabin Zhu, Yan Xiong and Wenchao Huang (University of Science and Technology of China). |
| 9:00-9:15 | Functional Analysis Based Strategy for Preserving Location Privacy. Kunyi Chen, Siyao Cheng, Hong Gao and Jianzhong Li (Harbin Institute of Technology). |
| 9:15-9:30 | KeyChain: Blockchain-based Key Distribution. Yifei Hu, Yan Xiong, Wenchao Huang and Xianglin Bao (University of Science and Technology of China). |
| **Session 8:** Security and Privacy(ii) |
| Time | Title and Speaker/Authors | The Venue |
| 9:30-9:45 | Detecting stubborn permission requests in Android applications. Jianmeng Huang, Wenchao Huang, Fuyou Miao and Yan Xiong (University of Science and Technology of China). | MTCCAuditorium |
| 9:45-10:00 | Adversarial attack? Don't panic. Feixia Min, Xiaofeng Qiu and Fan Wu (Beijing University of Posts and Telecommunications). |
| 10:00-10:15 | Identifying Superfluous Network Transmissions in Android Applications. Jianmeng Huang, Wenchao Huang, Zhaoyi Meng, Fuyou Miao and Yan Xiong (University of Science and Technology of China). |
| 10:15-10:30 | Automatically Detecting Malicious Sensitive Data Usage in Android Applications. Hongbing Yan, Yan Xiong, Wenchao Huang, Jianmeng Huang and Zhaoyi Meng (University of Science and Technology of China). |
| 10:30-10:45 | Coffee break |
| **Session 9:** Systems and Architecture |
| Time | Title and Speaker/Authors | The Venue |
| 10:45-11:00 | Formally Verifying Memory Isolation Based on ARM Processors. Jiabin Zhu, Wenchao Huang and Yan Xiong (University of Science and Technology of China). | MTCCAuditorium |
| 11:00-11:15 | NVMTFS: A Non-Volatile Memory Adaptive File System for Tiered Storage System. Shiyong Liu(Ocean University of China), Zhichao Cao(Ocean University of China), Zhongwen Guo (Ocean University of China), Guohua Wang (South China University of Technology) , Xupeng Wang (Ocean University of China), Zhijin Qiu (Qilu University of Technology) and Xukun Qin (University of Minnesota). |
| 11:15-11:30 | The Read Amplification Analysis of NoSQL Database on Top of OSDs: A Case Study of HBase. Shiyong Liu (Ocean University of China), Zhongwen Guo (Ocean University of China), Chen Liu (Ocean University of China), Xupeng Wang (Ocean University of China), Guohua Wang(South China University of Technology), (Qilu University of Technology) and Xukun Qin (University of Minnesota). |
| 11:30-11:45 | Making Halide Efficient for Multicore Systems. Yu Zhang and Yuxiang Zhang (University of Science and Technology of China). |
| 11:45-12:00 | Query Optimization for massive RDF data based on Spark. Shaohui Li, Tiezheng Nie and Derong Shen (Northeastern University). |