ACM TURC SIGOPS 2018 Programs

**Day 1: May 18th**

| **Time** | **Talks** |
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| 08:45 - 09:00 | Opening Remarks (Wenguang Chen, Yu Zhang) |
| 09:00 - 10:00 | **Keynote 1** |
| **深度学习处理器**Speaker: Yunji Chen (Professor, ICT)Chair: Yu Zhang (Associate Professor, USTC) |
| 10:00 - 10:20 | Tea Break |
| 10:20 - 12:00 | **Session 1: Fighting Distributed Environments**Chair: Yubin Xia (Associate Professor, SJTU) |
| **TcpRT: ⼤规模云数据库的实时服务质量分析诊断系统**Yusong Gao (Alibaba Group) |
| **Datasize-Aware High Dimensional Configurations Auto-Tuning of In-Memory Cluster Computing**Zhibin Yu, Zhendong Bei (Shenzhen Institute of Advanced Technology); Xuehai Qian (University of Southern California Los Angeles) |
| **深度学习模型的分布式部署优化**Cheng Yang, Sa Wang, Yungang Bao, Wenfeng Xu (ICT) |
| **X-Paxos: A global distributed consensus protocol library**Yingqiang Zhang (Alibaba Group) |
| **QFrag: Distributed Graph Search via Subgraph Isomorphism**Marco Serafini (QCRI) |
| 12:00 - 14:00 | Lunch and Break |
| 14:00 - 15:00 | **Keynote 2** |
| **智能驾驶：一个复杂的系统工程**Speaker: [Bo Huang](https://www.uisee.com/) (General Manager, UISEE)Chair: Xiaosong Ma (Principal Scientist, QCRI) |
| 15:00 - 15:15 | Tea Break |
| 15:15 - 16:55 | **Session 2: OS and GPUs**Chair: Yungang Bao (Professor & Director of ACS, ICT) |
| **Avalon: Building an Operating System for Robotcenter**Yuan Xu, Zhiyuan Yan, Sa Wang, Cheng Yang, Qingsai Xiao, Yungang Bao (ICT) |
| **Get Out of the Valley: Power-Efficient Address Mapping for GPUs**Yuxi Liu (Ghent University & Peking University); Xia Zhao (Ghent University); Magnus Jahre (Norwegian University of Science and Technology); Zhenlin Wang (Michigan Technological University); Xiaolin Wang, Yingwei Luo (Peking University); Lieven Eeckhout (Ghent University) |
| **Transparent Partial Page Migration between CPU and GPU**Shiqing Zhang, Yaohua Yang, Li Shen, Zhiying Wang (NUDT) |
| **DCUDA: Dynamic GPU Sharing via Live Migration**Fan Guo (USTC); Junping Zhao (Dell EMC); Yongkun Li (USTC); Kun Wang (Dell EMC); Yinlong Xu (USTC); John C. S. Lui (CUHK) |
| **Accelerating the GPU Database Operations via a Data-driven Approach**Rentong Guo, Chao Xie (Zilliz); Xiaofei Liao (HUST) |
| 16:55 - 17:10 | Tea Break |
| 17:10 - 18:00 | **Panel**: **ML system builder and user, both hardware and software** Moderator: Zheng Zhang (Professor, NYU) |
| **Panelist:** Yiran Chen (Associate Professor & Co-Director of CEI, Duke University)Yu Wang (Associate Professor, Tsinghua University/Co-Founder, Deephi)Bo Huang (General Manager, UISEE) Naiyan Wang (Co-Founder & Chief Scientist, TuSimple)Haibo Chen (Professor, SJTU/ Chief Scientist for OS, Huawei Research) |

**Day 2: May 19th**

| **Time** | **Talks** |
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| 14:00 - 15:00 | **Keynote 3** |
| **Designing An Efficient and Safe Neuromorphic Computing System**Speaker: Yiran Chen (Associate Professor & Co-Director of CEI, Duke University)Chair: Wenguang Chen (Professor, Tsinghua University) |
| 15:00 - 15:15 | Tea Break |
| 15:15 - 16:35 | **Session 3: From Cache to DFS** Chair: Haikun Liu, Associate Professor, HUST |
| **Penalty-Aware Cache Modeling and Its Applications**Cheng Pan, Xiameng Hu, Lan Zhou, Yingwei Luo, Xiaolin Wang (Peking University); Zhenlin Wang (Michigan Tech) |
| **UKSM: Swift Memory Deduplication via Hierarchical and Adaptive Memory Region Distilling**Nai Xia, Chen Tian (Nanjing University); Yan Luo, Hang Liu (University of Massachusetts Lowell); Xiaoliang Wang (Nanjing University) |
| **RAID+: Deterministic and Balanced Data Distribution for Large Disk Enclosures**Guangyan Zhang, Zican Huang (Tsinghua University); Xiaosong Ma (QCRI, HBKU); Songlin Yang, Zhufan Wang, Weimin Zheng (Tsinghua University) |
| **Improving Metadata Performance in Distributed File Systems via Data Correlation-Directed Prefetching**Youxu Chen, Cheng Li, Min Lv, Xinyang Shao, Yongkun Li, Yinlong Xu (USTC) |
| 16:35 - 17:35 | **Session 4: Virtual is A Power** Chair: Lei Wang, Associate Professor, NUDT |
| **VButton: Practical Attestation of User-driven Operations in Mobile Apps**Wenhao Li, Shiyu Luo, Zhichuang Sun, Yubin Xia, Long Lu, Haibo Chen, Binyu Zang, Haibing Guan (SJTU) |
| **When DBT meets JIT**Xiaoli Gong, Tao Li (Nankai University) |
| **EPTI: Efficient Defence against Meltdown Attack for Unpatched VMs**Zhichao Hua, Dong Du, Yubin Xia, Haibo Chen, Binyu Zang (SJTU) |
| 17:35 - 17:50 | Concluding Remarks (Rong Chen, Cheng Li) |