

ACM TURC SIGOPS 2018 Programs

Day 1: May 18th

Time	Talks
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 (General Manager, UISEE)

Time	Talks
	Chair: Xiaosong Ma (Principal Scientist, QCRI)
15:00 - 15:15	Tea Break
15:15 - 16:55	<p>Session 2: OS and GPUs Chair: Yungang Bao (Professor & Director of ACS, ICT)</p> <p>Avalon: Building an Operating System for Robotcenter Yuan Xu, Zhiyuan Yan, Sa Wang, Cheng Yang, Qingsai Xiao, Yungang Bao (ICT)</p> <p>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)</p> <p>Transparent Partial Page Migration between CPU and GPU Shiqing Zhang, Yaohua Yang, Li Shen, Zhiying Wang (NUDT)</p> <p>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)</p> <p>Accelerating the GPU Database Operations via a Data-driven Approach Rentong Guo, Chao Xie (Zilliz); Xiaofei Liao (HUST)</p>
16:55 - 17:10	Tea Break
17:10 - 18:00	<p>Panel: ML system builder and user, both hardware and software Moderator: Zheng Zhang (Professor, NYU)</p> <p>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)</p>

Day 2: May 19th

Time	Talks
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)

Time	Talks
17:35 - 17:50	Concluding Remarks (Rong Chen, Cheng Li)