

# 第 17 届中国计算机系统 (ChinaSys) 学术研讨会

## 会议通知

ChinaSys 是中国计算机系统及相关领域的学术团体,宗旨是为本领域的研究者和从业者提供资源共享、交换思想和会晤的平台,为了促进中国计算机系统行业的发展,兹定于 2019 年 12 月 20 日-21 日在珠海召开 17 届 ChinaSys 研讨会,会议主题为:交流和探讨本领域的最新研究成果,具体安排如下:

### 一、会议时间

2019 年 12 月 20 日-2019 年 12 月 21 日

### 二、会议地点

珠海唐邑酒店 3 楼唐邑厅 (珠海 高新区唐家湾镇金唐路港湾 1 号科创园)

### 三、日程安排

December 20th, 2019 (3 楼唐邑厅)	
Time	Talks
8:30-8:40	珠海国家高新技术产业开发区管委会领导致辞—张静华副主任
8:40 - 8:45	珠海中科先进技术研究院领导致辞—姜长安副院长
8:45 - 8:50	中科院深圳先进技术研究院领导开幕式致辞—喻之斌
8:50-10:20	Keynote 1 Speaker: <b>Onur Mutlu</b> (ETH Zürich, Carnegie Mellon University)
10:20-10:40	Tea Break
10:40-10:50	合影留念
	Session 1
10:50-11:10	<b>No Barrier in the Road: A Comprehensive Study and Optimization of ARM Barriers (PPoPP 2020)</b> Nian Liu, Binyu Zang, and Haibo Chen Shanghai Jiao Tong University
11:10-11:30	<b>BBS: Micro-architecture Benchmarking Blockchain Systems through Machine Learning and Fuzzy Set (HPCA 2020)</b> Liang Zhu <sup>1</sup> , Chao Chen <sup>1</sup> , Zihao Su <sup>1</sup> , Weiguang Chen <sup>1</sup> , Tao Li <sup>2</sup> , and Zhibin Yu <sup>1</sup> 1: Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences 2: University of Florida
11:30-11:50	<b>Nailgun: Breaking the privilege isolation on ARM (S&amp;P 2019)</b> Zhenyu Ning, and Fengwei Zhang Southern University of Science and Technology
11:50-12:10	<b>Adaptive Memory-Side Last-Level GPU Caching (ISCA 2019)</b> Xia Zhao <sup>1</sup> , Almutaz Adileh <sup>1</sup> , Zhibin Yu <sup>2</sup> , Zhiying Wang <sup>3</sup> , Aamer Jaleel <sup>4</sup> , and Lieven Eeckhout <sup>1</sup> 1: Ghent University

	2: Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences 3: National University of Defense Technology 4: Nvidia
12:10-12:30	<b>Retrofitting High Availability Mechanism to Tame Hybrid Transaction/Analytical Processing (Submitted to EuroSys 2020)</b> Sijie Shen, Rong Chen, and Haibo Chen Shanghai Jiao Tong University
12:30-14:00	Lunch (3 楼唐宴)
14:00-15:00	Keynote 2 Speaker: <b>Tao Li</b> (University of Florida)
15:00-15:20	Tea Break
	Session 2
15:20-15:40	<b>Occlum: Secure and Efficient Multitasking Inside a Single Enclave of Intel SGX (ASPLOS 2020)</b> Youren Shen <sup>1</sup> , Hongliang Tian <sup>2</sup> , Yu Chen <sup>1</sup> , Yubin Xia <sup>3</sup> , Shoumeng Yan <sup>2</sup> , and Kang Chen <sup>1</sup> 1: Tsinghua University 2: Ant Financial 3: Shanghai Jiao Tong University
15:40-16:00	<b>DNNGuard: An Elastic Heterogeneous Architecture for DNN Accelerator against Adversarial Attacks (ASPLOS 2020)</b> Xingbin Wang, and Rui Hou State Key Laboratory of Information Security, Institute of Information Engineering, Chinese Academy of Sciences
16:00-16:20	<b>Asymmetric Resilience: A System Architecture for Transient Error Recovery in Accelerator-Rich Processors (HPCA 2020)</b> Jingwen Leng <sup>1</sup> , Alper Buyuktosunoglu <sup>2</sup> , Ramon Bertran <sup>2</sup> , Pradip Bose <sup>2</sup> , Quan Chen <sup>1</sup> , Minyi Guo <sup>1</sup> , and Vijay Janapa Reddi <sup>3</sup> 1: Shanghai Jiao Tong University 2: IBM 3: Harvard University
16:20-16:40	<b>SuperMem: Revitalizing the Write-through Cache for Secure Persistent Memory (MICRO 2019)</b> Pengfei Zuo <sup>1</sup> , Yu Hua <sup>1</sup> , and Yuan Xie <sup>2</sup> 1: Huazhong University of Science and Technology 2: University of California, Santa Barbara
16:40-17:00	<b>CoCuckoo: A Write-optimized Concurrent Cuckoo Hashing Scheme for Storage Systems (ATC 2019)</b> Yuanyuan Sun, Yu Hua, Zhangyu Chen, and Yuncheng Guo Huazhong University of Science and Technology
17:00-17:20	<b>Adaptive Resource Views for Containers (HPDC 2019)</b> Hang Huang <sup>1</sup> , Jia Rao <sup>2</sup> , Song Wu <sup>1</sup> , Hai Jin <sup>1</sup> , Kun Suo <sup>2</sup> , Xiaofeng Wu <sup>2</sup> 1: Huazhong University of Science and Technology 2: University of Texas at Arlington
17:20-	Dinner (3 楼唐宴)
December 21st, 2019 (3 楼唐邑厅)	
8:30-9:30	Keynote 3 Speaker: <b>Bingsheng He</b> (National University of Singapore)

	Session 3
9:30-9:50	<p><b>CrashTuner: Detecting Crash-Recovery Bugs in Cloud Systems via Meta-Info Analysis (SOSP 2019)</b></p> <p>Jie Lu, Liu Chen, Lian Li, and Xiaobing Feng Institute of Computing Technology, Chinese Academy of Sciences</p>
9:50-10:10	<p><b>Modelling and Analyzing Computations in Graph Neural Networks (Submitted to SIGMETRICS 2020)</b></p> <p>Zhihui Zhang<sup>1</sup>, Jingwen Leng<sup>1</sup>, Lingxiao Ma<sup>2</sup>, Youshan Miao<sup>3</sup>, Chao Li<sup>1</sup>, and Minyi Guo<sup>1</sup></p> <p>1: Shanghai Jiao Tong University 2: Peking University 3: Microsoft</p>
10:10-10:30	Tea Break
10:30-10:50	<p><b>An End-to-End Automatic Cloud Database Tuning System Using Deep Reinforcement Learning (SIGMOD 2019)</b></p> <p>Ji Zhang<sup>1</sup>, Yu Liu<sup>1</sup>, Ke Zhou<sup>1</sup>, Guoliang Li<sup>2</sup>, Zhili Xiao<sup>3</sup>, Bin Cheng<sup>3</sup>, Jiashu Xing<sup>3</sup>, Yangtao Wang<sup>1</sup>, Tianheng Cheng<sup>1</sup>, Li Liu<sup>1</sup>, Minwei Ran<sup>1</sup>, and Zekang Li<sup>1</sup></p> <p>1: Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology 2: Tsinghua University 3: Tencent Inc.</p>
10:50-11:10	<p><b>KnightKing: A Fast Distributed Graph Random Walk Engine (SOSP 2019)</b></p> <p>Ke Yang<sup>1</sup>, Mingxing Zhang<sup>1</sup>, Kang Chen<sup>1</sup>, Xiaosong Ma<sup>2</sup>, Yang Bai<sup>3</sup>, and Yong Jiang<sup>1</sup></p> <p>1: Tsinghua University 2: Qatar Computing Research Institute, HBKU 3: 4Paradigm Co. Ltd.</p>
11:10-11:30	<p><b>AutoFFT: A Template-Based FFT Codes Auto-Generation Framework for ARM and X86 CPUs (SC 2019)</b></p> <p>Li Zhihao, Haipeng Jia, and Chen Tun Institute of Computing Technology, Chinese Academy of Sciences</p>
11:30-11:50	<p><b>Capuchin: Tensor-based GPU Memory Management for Deep Learning (ASPLOS 2020)</b></p> <p>Xuan Peng, Xuanhua Shi, Hulin Dai, Weiliang Ma, and Qian Xiong Huazhong University of Science and Technology</p>
11:50-12:05	SIGOPS 颁奖
12:05-12:15	闭幕式致辞
12:15-14:00	Lunch (3 楼唐宴)