

ChinaSys 2017 会议通知

Nov. 24th - 26th, 2017

清华三亚国际数学论坛, 三亚, 海南

Organized by ACM SIGOPS ChinaSys, TSIMF, 海南农商行海口支行



第 13 届 ChinaSys 会议由 ACM SIGOPS Chinasys 主办, 清华三亚国际数学论坛和海口农村商业银行承办, 将于 2017 年 11 月 24-26 日在清华三亚国际数学论坛举行。会议汇集了国内清华大学、上海交通大学、中科院计算所、华中科技大学、中国科技大学等学术界的系统研究者以及阿里巴巴、腾讯和海南农商行等工业界的系统研发使用人员, 对云计算、大数据、安全、网络等计算机系统领域开展研讨。诚邀国内外计算机系统学术界和工业界拨冗莅临。

本次会议不收取注册费, 差旅食宿费用自理。

附 1. ChinaSys 介绍

ChinaSys 是计算机系统领域研究者和工程师组成的一个社区, 目标是为计算机系统领域研究者提供一个非正式的交流平台, 并促进与工业界的交流。

ChinaSys 目前每年举行两次邀请制的研讨会, 对早期的研究成果交换意见并获取反馈。2015 年起, ChinaSys 成为世界上最大的计算机专业组织 ACM 的操作系统分会中国分部, 正式名称为 ACM SIGOPS ChinaSys。

第 1 届 ChinaSys 于 2011 年 11 月在深圳举行, 迄今已举行了 12 届, 很多著名学者都参加了 ChinaSys 并做了报告, 如中科院计算所徐志伟研究员、华中科技大学金海教授、ACM SIGOPS 主席 Robbert von Renesse, 美国加州圣芭芭拉分校谢源教授等。

附 2: 会议日程 (见下页)

三亚清华数学论坛管理中心

2017 年 11 月 21 日

ChinaSys 2017 Program

Nov. 24th - 26th, 2017

Day 1: Nov 24th

8:20 - 8:30 Opening

8:30-10:00 Session1, Cloud computing, Chair: Wenguang Chen

Big data and cloud computing demands in Banks, 吴敏, 海南农商行海口支行

gMig: Efficient GPU Live Migration Optimized by Software Dirty Page for Full Virtualization, *Jiacheng Ma, Xiao Zheng, Yaozu Dong, Zhengwei Qi, Wentai Li, Bingsheng He and Haibing Guan*(SJTU)

Imbalance in the Cloud: an Analysis on Alibaba Cluster Trace, *Kejiang Ye*(SIAT)

10:00 - 10:30 Coffee Break

10:30 – 12:30 Session 2 Operating Systems and Virtual Machine

林轩, Pouch容器和阿里容器化的进展, 阿里巴巴

Supporting Superpage and Fine-grained Page Migration in Hybrid Memory Systems, *Xiaoyuan Wang, Ji Chen, Haikun Liu, Xiaofei Liao, Hai Jin and Bingsheng He*(HUST & NUS)

Espresso: Brewing Java For More Non-Volatility, *Mingyu Wu and Haibo Chen*(SJTU)

(Mostly) Exitless VM Shielding in Untrusted Cloud through Disaggregated Nested Virtualization, *Zeyu Mi, Haibo Chen and Yubin Xia*(SJTU)

12:30 - 14:00 Lunch

14:00 – 15:30 Session 3 Measurement, Diagnosis and Debugging

Scalable Concurrency Debugging with Distributed Graph Processing, *Long Zheng, Xiaofei Liao, Hai Jin, Jiешan Zhao and Qinggang Wang*.(HUST)

I/O resource monitoring and diagnostic system for Sunway TaihuLight Supercomputer, *Bin Yang, Xiyang Wang, Xu Ji, Xiaosong Ma, Nosayba El-Sayed, Xiupeng Zhu, Yibo Yang, Haidong Lan, Weiguo Liu and Wei Xue* (SDU, NSCC-Wuxi, QCRI, MIT and Tsinghua)

Zcopy-vhost: Eliminating Packet Copying in Virtual Network I/O, *Dongyang Wang and Bei Hua*(USTC)

15:30 - 16:00 Coffee Break

16:00 - 17:30 Session 4: Machine Learning and Systems

Principal Component Analysis based Filtering for Scalable, High Precision k-NN Search, *Huan Feng, David Evers, Steven Mills, Yongwei Wu and Zhiyi Huang*(Tsinghua & Otago)

BestConfig: Tapping the Performance Potential of Systems via Automatic Configuration Tuning, *Hui Liu, Yuqing Zhu, Jianxun Liu, Mengying Guo, Yungang Bao, Wenlong Ma, Zhuoyue Liu, Kunpeng Song and Yingchun Yang*(ICT)

Adaptive Prefetching for Commercial Smartphone Processors, *Bowen Huang, Chongya Ma, Yan Cao, Zihao Yu, Xin Jin, Sa Wang and Yungang Bao*, (ICT)

Day 2: Nov 25th

8:30 – 10:30 Session 5: Performance

CVR: Efficient SpMV Vectorization on X86 Processors, *Biwei Xie, Jianfeng Zhan, Xu Liu, Zhen Jia, Wanling Gao and Lixin Zhang*(ICT, William Mary & Princeton)

Prophet: Scheduling Executors with Time-varying Resources Demands on Data-Parallel Computation Frameworks, *Guoyao Xu and Cheng-Zhong Xu* (SIAT)

A Neural Network Compiler: Bridge the Gap Between Neural Networks and Neuromorphic Hardware, *Yu Ji, Youhui Zhang, Wenguang Chen and Yuan Xie*(Tsinghua & UCSB)

SketchVisor: Robust Network Measurement for Software Packet Processing, *Qun Huang*(ICT)

10:30-10:45 Tea break

10:45-11:30 Invited Talk

Academia vs. Industry: A System Researcher 's Perspective , *Haibo Chen*, SJTU/Huawei

11:30 – 12:30 Panel Discussion

Compiler in the new era and ChinaSys

Panelist: *Haibo CHEN, Xiaobing Feng and Youhui ZHANG*

12:35 Lunch

Day 2 afternoon & Day3: Nov 26th Group discussion