

BPOE-5 workshop

The Fifth Workshop on **B**ig Data Benchmarks,
Performance **O**ptimization, and **E**merging
Hardware

Hangzhou, 2014.9.5

<http://prof.ict.ac.cn/bpoe>



中国科学院
INSTITUTE OF COMPUTING TECHNOLOGY

BPOE-5 Opening Remark

Jianfeng Zhan

ICT, Chinese Academy of Sciences

Hangzhou, 2014. 9. 5



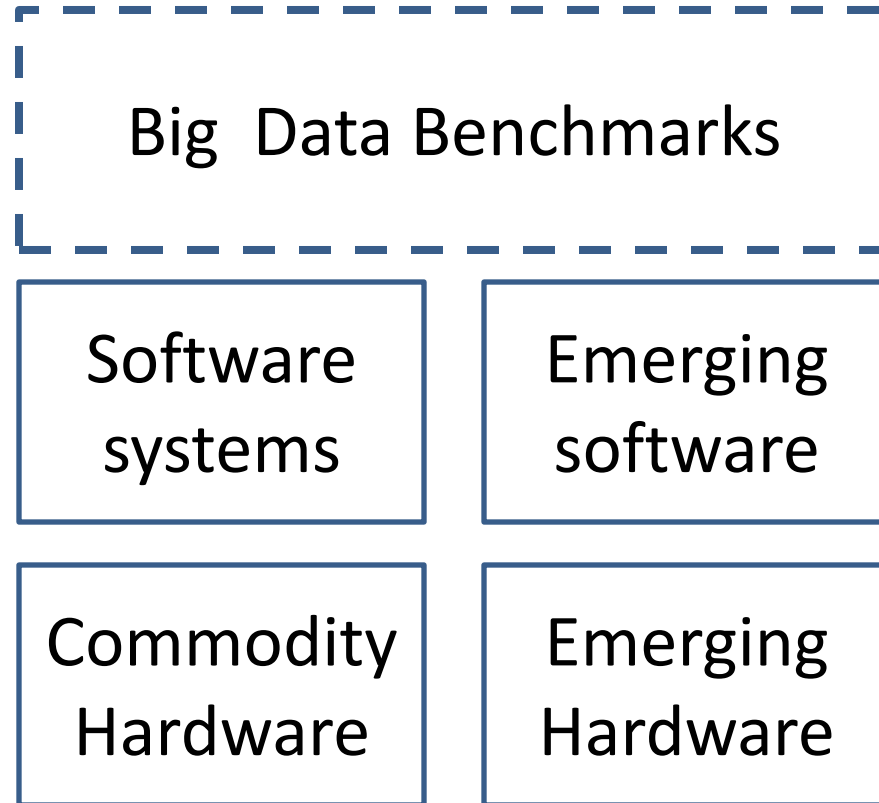
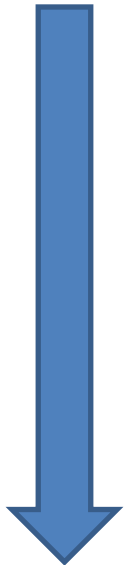
中国科学院计算所
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BPOE Motivation

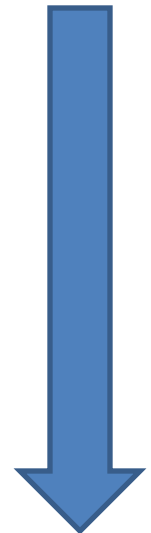
- Big data: multi-discipline research fields
 - System, architecture, data management
- The puzzle of main conference
 - We need sit together
- Alternatively co-located with two top conferences
 - ASPLOS (System and architecture)
 - VLDB (Data management)

Main Themes

Optimization



Guide



BPOE SC

- Christos Kozyrakis, Stanford
- Xiaofang Zhou, [University of Queensland](#)
- Dhabaleswar K Panda, Ohio State University
- Aoying Zhou, East China Normal University
- Raghunath Nambiar, Cisco
- [Lizy K John](#), University of Texas at Austin
- Xiaoyong Du, Renmin University of China
- Ippokratis Pandis, IBM Almaden Research Center
- Xueqi Cheng, ICT, Chinese Academy of Sciences
- Bill Jia, Facebook
- Lidong Zhou, Microsoft Research Asia
- H. Peter Hofstee, IBM Austin Research Laboratory
- Alexandros Labrinidis, University of Pittsburgh
- Cheng-Zhong Xu, Wayne State University
- [Jianfeng Zhan](#), ICT, Chinese Academy of Sciences
- Guang R. Gao, University of Delaware.
- Yunquan Zhang, ICT, Chinese Academy of Sciences

BPOE-5 Program

- 18 submissions
- 10 papers accepted
 - China 5
 - US 3
 - Europe 2
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- No keynote speaker

BPOE-5 Program

Morning

Time	Topic	Speaker	
9:00-9:05	Opening remark	Professor Jianfeng Zhan	ICT, CAS and University of CAS
9:05-9:35	A Benchmark to Evaluate Mobile Video Upload to Cloud Infrastructures	Afsin Akdogan, Hien To, Seon Ho Kim and Cyrus Shahabi.	University of Southern California
9:35-10:05	A Study of SQL-on-Hadoop Systems	Yueguo Chen, Xiongpai Qin, Xiaoyong Du and Jiaheng Lu.	Renmin University of China
10:05-10:30	Tea break		
10:30-11:00	A Micro-benchmark Suite for Evaluating Hadoop MapReduce on High-Performance Networks	Dipti Shankar, Xiaoyi Lu, Md Rahman, Nusrat Islam and Dhableswar Panda.	The Ohio State University
11:00-11:30	Predoop: Preempting Reduce Task for job execution acceleration	Yi Liang, Yufeng Wang, Minglu Fan, Chen Zhang, and Yuqing Zhu.	Beijing University of Technology
11:30-12:00	MemTest: A Novel Benchmark for In-Memory Database	Qiangqiang Kang, Cheqing Jin, Zhao Zhang and Aoying Zhou.	East China Normal University

Afternoon

Time	Topic	Speaker	
14:00-14:30	Record Placement Based on Data Skew Using Solid State Drives	Jun Suzuki, Shivaram Venkataraman, Sameer Agarwal, Michael Franklin and Ion Stoica	NEC and University of California, Berkeley
14:30-15:00	InvarNet-X: A Comprehensive Invariant based Performance Diagnosis in Big Data Platform	Pengfei Chen, Yong Qi, Di Hou and Huachong Sun.	Xi'an Jiaotong University
15:00-15:30	Tea break		
15:30-16:00	DSIMBench: A benchmark for Microarray data using R	Shicai Wang, Ioannis Pandis, Ibrahim Emam, David Johnson, Florian Guitton, Axel Oehmichen and Yike Guo	Imperial College London
16:00-16:30	Benchmarking Replication and Consistency Strategies in Cloud Severing Databases: HBase and Cassandra	Huajin Wang, Jianhui Li, Haiming Zhang and Yuanchun Zhou.	Computer Network Information Center, Chinese Academy of Sciences
16:30-17:00	Efficient HTTP based I/O on very large dataset for high performance computing with the Libdavax library	Adrien Devresse and Fabrizio Furano	CERN, European Organization for Nuclear Research
17:00-17:20	Closing remark and announcement of Best Paper Award	Dr. Rui Han	



Rules for BPOE-5 best paper award

- (1) Each one nominates at most three papers.
- (2) About 3 best papers will be recommended for **IEEE Transactions on Emerging Topics in Computing (TETC) SI on Big Data Benchmarks, Performance Optimization, and Emerging Hardware**.
 - **Only one paper will be awarded with the best paper award.**
- (3) We encourage you to sign this form with your real name. But it is not mandatory.
- (4) Please give this form to me.

Acknowledgements

- Thanks for authors, reviewers and SC.
- Program Chair: Dr. Rui Han
- Session Chairs: Dr. Rui Han, Dr. Yueguo Chen and Dr. Xiaoyi Lu

Thanks