

BPOE-7 Call for Papers

The Seventh workshop on Big Data Benchmarks, Performance Optimization, and Emerging Hardware

Web: <http://www.bafst.com/events/asplos16/bpoe7/>

Co-located with ASPLOS 2016

April 3rd, 2016, Atlanta, Georgia, USA

* Introduction

Big data has emerged as a strategic property of nations and organizations. There are driving needs to generate values from big data. However, the sheer volume of big data requires significant storage capacity, transmission bandwidth, computations, and power consumption. It is expected that systems with unprecedented scales can resolve the problems caused by varieties of big data with daunting volumes. Nevertheless, without big data benchmarks, it is very difficult for big data owners to make choice on which system is best for meeting with their specific requirements. They also face challenges on how to optimize the systems and their solutions for specific or even comprehensive workloads. Meanwhile, researchers are also working on innovative data management systems, hardware architectures, operating systems, and programming systems to improve performance in dealing with big data.

This workshop, the seventh its series, focuses on architecture and system support for big data systems, aiming at bringing researchers and practitioners from data management, architecture, and systems research communities together to discuss the research issues at the intersection of these areas.

* Call for papers

Topics:

The workshop seeks papers that address hot topic issues in benchmarking, designing and optimizing big data systems. Specific topics of interest include but are not limited to:

- ** Big data workload characterization and benchmarking
- ** Performance analysis of big data systems
- ** Workload-optimized big data systems
- ** Innovative prototypes of big data infrastructures
- ** Emerging hardware technologies in big data systems
- ** Operating systems support for big data systems
- ** Interactions among architecture, systems and data management
- ** Hardware and software co-design for big data
- ** Practice report of evaluating and optimizing large-scale big data systems

Papers should present original research. As big data spans many disciplines, papers

should provide sufficient background material to make them accessible to the broader community.

* Paper Submissions

Papers must be submitted in PDF, and be no more than 8 pages in standard two-column SIGPLAN conference format including figures and tables but not including references. Shorter submissions are encouraged. The submissions will be judged based on the merit of the ideas rather than the length. Submissions must be made through the on-line submission site.

Submission site: <http://easychair.org/conferences/?conf=bpoe7>

Best paper award will be announced at the end of the workshop!

* Important dates:

Papers due	February 17, 2016.
Notification of acceptance	February 23, 2016
Camera-ready copies	March 30, 2016
Workshop Session	April 3rd, 2016

* Program Committee (Confirmed)

Bingsheng He, Nanyang Technological University
Xu Liu, College of William and Mary
Rong Chen, Shanghai Jiao Tong University
Weijia Xu, Texas Advanced Computing Center, University of Texas at Austin
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Dr. Rui Han, ICT, Chinese Academy of Sciences

Web and Publicity Chairs:

Zhen Jia, ICT, Chinese Academy of Sciences and UCAS

Wanling Gao, ICT, Chinese Academy of Sciences and UCAS

* Previous Events

- BPOE-1 October 7, 2013 IEEE BigData Conference, San Jose, CA
- BPOE-2 October 31, 2013 CCF HPC China, Guilin, China
- BPOE-3 December 5, 2013 CCF Big Data Technology Conference 2013, Beijing, China
- BPOE-4 March 1, 2014 ASPLOS 2014, Salt Lake City, Utah, USA
- BPOE-5 September 5, 2014 VLDB 2014, Hangzhou, Zhejiang Province, China
- BPOE-6 September 4, 2015 VLDB 2015, Hilton Waikoloa Village, Kohala Coast, Hawai'i