



## The 6th International Workshop on Big Data and Cloud Performance (DCPerf'16)

Nara, Japan, June 27, 2016

[www.zurich.ibm.com/dcperf16](http://www.zurich.ibm.com/dcperf16)

Cloud Data centers are the backbone infrastructure for tomorrow's information technology. Their advantages are efficient resource provisioning and low operational costs for supporting a wide range of computing needs, be it in business, scientific or mobile/pervasive environments. Because of the rapid growth in user-defined and user-generated programs, applications and files, the range of services provided at data centers will expand tremendously and unpredictably. Particularly, Big Data applications and service present a unique class of challenges in Cloud. The high volume of mixed workloads and the diversity of services offered render the performance optimization of data centers ever more challenging. Moreover, important optimization criteria, such as scalability, reliability, manageability, power efficiency, area density, operating cost and many more, often are even mutually exclusive to some extent. On top of that, the increasing mobility of users across geographically distributed areas adds another dimension to optimizing big data and cloud performance.

The goal of this workshop is to promote a community-wide discussion to find and identify suitable strategies to enable effective and scalable performance optimizations. We are looking for papers that present new techniques, introduce new theory and methodologies, propose new research directions, or discuss strategies for resolving open performance problems on Big Data in Clouds.

**Topics of interest** include (but are not limited to):

- Big Data applications and Services
  - o Emerging applications
  - o Programming paradigm
  - o Platforms
  - o Empirical studies
- Data Center systems
  - o Novel architectures
  - o Resource allocation
  - o Content distribution
  - o Evaluation/modeling methodology
- Big Data and Cloud Performance
  - o Cost
  - o Power
  - o Reliability
  - o Performance evaluation/modeling
- Big Data in Cloud
  - o Intra/Inter communication
  - o Network Protocols
  - o Security
  - o Real-time analytics

**Important dates**

Paper Registration and Submission: Feb 7, 2016 **extended to Feb 17, 2016**  
Notification of Acceptance: Mar 4, 2016  
Final Manuscript Due: Apr 18, 2016

**Submission Guideline**

Manuscripts must be limited to 6 pages in IEEE 8.5x11 format. Accepted papers will be published in the combined ICDCS 2016 Workshop proceedings and will be submitted to IEEE Xplore. Manuscripts should be submitted via <https://easychair.org/conferences/?conf=dcperf16>

**Organizing Committee****General Chair**

Xiaoyun Zhu, FutureWei Technologies, USA

**TPC Chairs**

Xiaobo Zhou, University of Colorado, USA

Lydia Y. Chen, IBM Research – Zurich, Switzerland

**Publicity Chair**

Robert Birke, IBM Research – Zurich, Switzerland

**Steering Committee**

Jian-Nong Cao, Hong Kong Polytechnic University, Hong Kong; Alok Choudhary, Northwerstern University, USA;  
Peter Muller, IBM Research – Zurich, Switzerland; Martin Schmatz, IBM Research – Zurich, Switzerland;  
Anand Sivasubramaniam, Penn State University, USA; Larry Xue, Arizona State University, USA