Weichao Guo

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Education

Tsinghua University Beijing, P.R. China   09,2011 ~ present
Ph.D candidate in Computer Science and Technology
Advisor: Prof. Weimin zheng & Prof. Yongwei Wu
Research Interests: Storage techniques, Mobile and Operating Systems, and Distributed Systems

Harbin Institute of Technology Heilongjiang, P.R. China   09,2007 ~ 07,2011
B.S. in Software Engineering, July 2011 (Rank: 3/155)

Research & Internship Experience

Mobile and Distributed System Group, Tsinghua University   Sep. 2011 to present
Research Assistant   Supervisor: Prof. Yongwei Wu
(1) **Instrumentation Based Outlier-Aware Scheduler for Massive Parallel Compute-Intensive Tasks**
(2) **Improving Mobile Applications Launching Experience with Retrofitting Page Swapping**
(3) **Reducing Cost of Quorum Based Distributed Services with Spot Instances while keeping HA**
Browser Development Group, Wireless Business Division, Tencent Inc.   Jul. 2010 to Sep. 2010
R.&D. Intern   Mentor: Engineer Shi Ling
(1) **Porting Flirt, an open source Linux flash runtime to Windows Mobile Platform**

Publications

1. *MARS: Mobile Application Relaunching Speed-up through Flash-Aware Page Swapping*,
   Weichao Guo, Kang Chen, Yongwei Wu, Weimin Zheng
   Accepted and to appear in *IEEE Transactions on Computers (TC)*

2. *Bidding for Highly Available Services with Low Price in Spot Instance Market*,
   Weichao Guo, Kang Chen, Yongwei Wu, Weimin Zheng
   Proceedings of *the 24th ACM International Symposium on High-Performance Parallel and Distributed Computing (HPDC'15)*

3. *NO2: Speeding Up Parallel Processing of Massive Compute-Intensive Tasks*,
   Yongwei Wu, **Weichao Guo**, Jinglei Ren, Xun Zhao, Weimin Zheng,
   IEEE Transactions on Computers (TC), Vol. 63, No. 10, pp. 2487 - 2499, Oct. 2014.

Honors and Awards

National Scholarship	2014 - 2015
Second-Class Outstanding Scholarship, Tsinghua University	2013 - 2014
Outstanding Graduates Award, Heilongjiang Province	2011
First Prize, Northeast Mathematical Contest in Modeling	2010
Second Prize, National College Information Security Competition	2010
National Scholarship	2008 - 2009
First-Class People Scholarship, Harbin Institute of Technology	2008, 2009, 2010