

Da Zhou

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Research Interests

Flash memory database;
Hardware-aware Storage, Indexing, Query processing and Transaction processing;
Design, implementation and performance of data management systems.

Education

- **Ph.D. Candidate**, September 2006 - present
Dept. of Computer Science, School of Information, Renmin University, Beijing, China
- **M.S.**, September 2002 - January 2005
Dept. of Optical Engineering, School of Information, Beijing Institute of Technology, Beijing, China
- **B.S.**, September 1998 - June 2002
Dept. of Optical Engineering, School of Information, Beijing Institute of Technology, Beijing, China

Research Projects

- 2009.01 – present **Leading member** of Flash-based Database Research (**Key Project**) granted by the Natural Science Foundation of China (NSFC) under grant number 60833005. This project aims to redesign the conventional disk-based database according to the characteristics of flash memory. In this project, I focused on flash-aware storage and index at first, then query processing and transaction processing.

- 2007.01 - 2008.01 **Leading member** of Flash-based Server System granted by Huawei Science Foundation, 2007. This project develops high-performance flash-based servers. In this project, I, as the member from Renmin University of China, designed the storage method and indexing structure.
- 2006.10 – 2006.12 **Technical Manager** of Syntech project granted by CVIC Software Engineering Co., Ltd, 2006. In this project, I design the database for the direct distributor relation and work flow.
- 2005.03 - 2006.09 Software development engineer of **ChinaSoft International CO., LTD.** During this course, I worked as a vendor of Microsoft Corporation.
 - 2005.04 - 2005.12 Automation Test on Window Mobile 5.0 in Microsoft Advanced Technology Center (ATC). I was in charge of developing automation programs for test cases via C++/C#.
 - 2006.01 - 2006.09 Automation Test and Manual Test on Window Live Messenger in Microsoft Window Live Messenger Center. I was in charge of developing new test cases and performing automation and manual test.

Publications

- **Da Zhou, Xiaofeng Meng: RS-Wrapper: Random Write Optimization for Solid State Drive.** In Proceedings of the 18th ACM Conference on Information and Knowledge Management (CIKM2009), November 2-6, 2009, Hong Kong, China.
- **Da Zhou, Xiaofeng Meng, Zhichao Liang: HF-Tree: An Update-Efficient Index for Flash Memory.** In Proceedings of the 26th National Database Conference(NDBC2009), October 15-18, 2009, Nanchang, China.(In Chinese).
- Zhichao Liang, **Da Zhou, Xiaofeng Meng: Sub-Join: A Query Optimization Algorithm for Flash-based Database.** In Proceedings of the 26th National Database Conference(NDBC2009), October 15-18, 2009, Nanchang, China. (In Chinese).
- **Da Zhou, Zhichao Liang, Xiaofeng Meng: A New Cache Management Approach for Transaction Processing on Flash-based Database.** In Proceedings of the 6th Web Information Systems and Applications Conference (WISA2009), September 18-20, 2009, Xuzhou, China.
- Li Xiang, **Da Zhou** and Xiaofeng Meng: **A New Dynamic Hash Index for Flashbased Storage.** In Proceedings of 9th International Conference on Web-Age Information Management (WAIM 2008) , Zhangjajie, China.

Academic Activities

- **Organization Committee General Chairs** of the 1st and 2nd International Workshop on Flash-based Database Systems (FDS), 2008, 2009.
- Participating in China National Computer Conference (CNCC), 2009
- Participating in Web Information Systems and Applications Conference (WISA), 2007
- Participating in International Conference on Data Engineering (ICDE), 2009
- Participating in International Conference on Mobile Data Management (MDM), 2008
- Participating in ACM SIGMOD Conference on Management of Data (SIGMOD), 2007

Awards and Certificates

- **Top 1 GPA** in class, 1998-2002
- The national scholarship, 2006-2009
- The national scholarship, 2002-2005
- Excellent Students Awards for **4** times, 1998-2002
- Meritorious of RENMIN fellowships for **8** times, 1998-2002
- Excellent graduate students in Beijing City, 2002
- Second Prize in Beijing Contest District in National Undergraduate Electronic Design Contest, 2001
- Fellowship for Excellent Student Under Poverty, 2001
- Beijing HAMAMATSU fellowship, 2000
- TAIJI fellowship, 1999