

Bin Shao

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SUMMARY Bin Shao is a lead researcher at Microsoft Research Asia (Beijing, China). He joined Microsoft after receiving his Ph.D. degree from Fudan University in July 2010. Bin Shao is leading the Microsoft Graph Engine project, which is a distributed in-memory large graph processing engine. His research interests include machine learning techniques, in-memory databases, distributed systems, and parallel graph processing. The results of his research have appeared in top conferences and leading journals.

EDUCATION School of Computer Science, Fudan University, Shanghai, China
 Ph.D. Sep. 2005 – Jul. 2010
 School of Computer Science and Technology, Shandong University, Jinan, China
 B.E. Sep. 2001 – Jul. 2005

HONOURS AND AWARDS Gold Star Award, Microsoft, 2011
 Outstanding Graduates Awards, Shanghai, 2010
 OOCL(Orient Overseas Container Line) Scholarship, Fudan University, 2009
 Scholarship for Selected First-Year Graduate Students, Fudan University, 2005
 Excellent Graduation Thesis, Shandong University, 2005
 Outstanding Graduates Awards, Shandong University and Shandong Province, 2005
 First Prize, Shandong College Student Software Design Contest, 2004
 Scholarship (2nd Prize or Better) Every Year, Shandong University, 2002-2004
 CVIC(China Venturetech Investment Corporation) Software Engineering Scholarship, 2002

SELECTED PUBLICATIONS *Bin Shao*, Haixun Wang, and Yatao Li. Trinity: A Distributed Graph Engine on a Memory Cloud. In SIGMOD 2013: Proceedings of the 2013 ACM SIGMOD International Conference on Management of Data, New York, New York, USA, June 22-27, 2013, pages 505-516.

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- Huanhuan Xia, Tun Lu, *Bin Shao*, Xianghua Ding, Ning Gu. Hermes: On Collaboration across Heterogeneous Collaborative Editing Services in the Cloud. In CSCWD 2014: 18th IEEE International Conference on CSCW in Design, Hsinchu, Taiwan, May 21-23, 2014, pages 655-660.
- Liang He, *Bin Shao*, Yatao Li, Enhong Chen. Distributed Real-Time Knowledge Graph Serving. In BigComp 2015: Second International Conference on Big Data and Smart Computing, Jeju island, Korea, February 9-12, 2015. Invited Paper.
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- Yatao Li, *Bin Shao*. Hash storage based large graph generator. Communications of the CCF (Chinese). 8(11): 16 -20, 2012.
- Bin Shao*, Du Li, Tun Lu and Ning Gu. An Operational Transformation Based Synchronization Protocol for Web 2.0 Applications. In CSCW 2011: Proceedings of the 2011 ACM Conference on Computer Supported Cooperative Work, Hangzhou, China, Mar. 19-23, 2011.
- Bin Shao*, Du Li, and Ning Gu. An Algorithm for Selective Undo of Any Operation in Collaborative Applications. In Group 2010: Proceedings of Group 2010 Conference, Sanibel Island, FL., USA, Nov. 7-10, 2010, pages 131-140.
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- Bin Shao*, Du Li, and Ning Gu. An Optimized String Transformation Algorithm for Real-time Group Editors. In ICPADS 2009: The 15th International Conference on Parallel and Distributed Systems, Shenzhen, China, Dec. 8-11, 2009, pages 376-383.

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Hansu Gu, Qiwei Zhang, and *Bin Shao*. Making AutoCAD Collaborative : Implementation and Application of CoAutoCAD. In *ICPCA 2007: Proceedings of 2nd International Conference on Pervasive Computing and Applications*, Birmingham, England, Jul. 26-27, 2007, pages 168-173.

PATENT
APPLICATIONS

Bin Shao, Du Li, Ning Gu. China Patent Application 201010176176.4, A Selective Undo Method based on Operation Effects Relation Order. Publication date: Oct. 6, 2010.

Bin Shao, Haixun Wang, Wei Fang. US Patent Application 2015/0120775 A1, Answering relational database queries using graph exploration. Application Number: 14/062036. Publication date: Apr. 30, 2015.

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