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Personal Information

Date of Birth: January 31, 1981

Citizenship: Japan

Research Interests

XML Database System, Distributed and Parallel Database System, Data Management on Modern Hardwares, Non-blocking Algorithms.

Education

Ph.D., Engineering, Graduate School of Information Science, Nara Institute of Science and Technology, Japan, 2009.

Dissertation: Making XML Database Systems Scalable to Computer Resources and Data Volumes

Advisor: Jun Miyazaki

Committee: Hirokazu Kato, Hiroyuki Seki, Jun Miyazaki, and Toshiyuki Amagasa

Honors: Best Student Award

M.E., Computer Science, Graduate School of Information Science, Nara Institute of Science and Technology, Japan, 2006.

Concentration: XML-native Storage Systems

Advisor: Shunsuke Uemura

B.E., Computer Science, Shibaura Institute of Technology, Japan, 2003.

Concentration: Building a multi-functional XML database environment using RDBMS

Advisor: Atsuyuki Morishima

Professional Experience

Apr 2009 - present: Visiting researcher, Research Institute of Information Technological Biology, Waseda University.

Apr 2009 - present: JSPS Research Fellow (PD)

Apr 2008 - Mar 2009: JSPS Research Fellow (DC2)

Apr 2004 - Mar 2005: Programmer, NEC Informatec Systems, Ltd, Japan.

Joint work with Fujitsu Limited, Hitachi, Ltd., and NEC Corporation. Designed and implemented RM4GS (Reliable Messaging for Grid Services) that provides reliable messaging facilities for web services.

Publications

Journal Articles

Makoto Yui, Jun Miyazaki, Shunsuke Uemura, Hirokazu Kato and Hayato Yamana. A Lock-free GCLOCK Page Replacement Algorithm, IPSJ Transactions on Databases, TOD 44, December 2009. (in Japanese, Accepted)

Makoto Yui, Jun Miyazaki, Shunsuke Uemura and Hirokazu Kato. Distributed XQuery Processing Using Remote Proxy, IPSJ Transactions on Databases, Vol.2, No.SIG 1 (TOD 41), pp.104–115, March 2009. (in Japanese)

Makoto Yui, Jun Miyazaki and Shunsuke Uemura. XML Storage Based on DTM for Efficient XQuery Processing, IPSJ Transactions on Databases, Vol.48, No.SIG 11 (TOD 34), pp.128–148, June 2007. (in Japanese)

Makoto Yui and Atsuyuki Morishima. Development of a Multifunctional XML Database Environment based on PostgreSQL, IPSJ Transactions on Databases, Vol.44, No.SIG 12 (TOD 19), pp.11–22, September 2003. (in Japanese)

Proceedings

Makoto Yui, Jun Miyazaki, Shunsuke Uemura and Hayato Yamana. XBird/D: Nb-GCLOCK: A Non-blocking Buffer Management based on the Generalized CLOCK, Proc. ICDE, March 2010. (Accepted)

Makoto Yui, Jun Miyazaki, Shunsuke Uemura and Hirokazu Kato. XBird/D: Distributed and Parallel XQuery Processing using Remote Proxy, Proc. ACM Symposium on Applied Computing (SAC), Special Track on Database Theory, Technology, and Applications (DTTA), March 2008.

Makoto Yui, Jun Miyazaki, Shunsuke Uemura and Hirokazu Kato. Efficient XML Storage based on DTM for Read-oriented Workloads, Proc. IEEE International Workshop on Advanced Storage Systems (ADSS), pp.559–564, IEEE CS Press, October 2007.

Awards & Honors

March 2010 IPSJ Yamashita SIG Research Award, Information Processing Society of Japan. (To appear)

July 2009 Distinguished Young Researcher Award, iDB Workshop.

March 2009 Best Student Award, Nara Institute of Science and Technology, Japan.

June 2008 Distinguished Young Researcher Award, The Database Society of Japan.

March 2003 IPSJ Thesis prize 2003, Information Processing Society of Japan.

July 2003 Super Creator Award, Information-Technology Promotion Agency, Japan.

Grants & Fellowships

Apr 2008 - Mar 2010 Grant-in-Aid for JSPS Fellows, Japan Society for the Promotion of Science.

Dec 2005 - Aug 2006 Exploratory Software Project, Information-technology Promotion Agency, Japan.

Nov 2002- Mar 2003 Exploratory Software Project (MITOU Youth), Information-technology Promotion Agency, Japan.

References

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Engineering, Faculty of Science and Engineering,
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edge Communities
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