

Byeongcheol “BK” Lee

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Address is available upon request

Interest

Java virtual machine optimization and tools
Mixed programming language optimization and tools

Education

PhD. Student in Computer Sciences Jun 2006 - Present
The University of Texas at Austin Austin, TX
Advisor: Kathryn S. McKinley

M.A. in Computer Sciences May 2006
The University of Texas at Austin Austin, TX
Advisor: Kathryn S. McKinley
Thesis: Call Graph Correction Using Control Flow Constraints 4.00/4.00 GPA

B.E. in Computer Science and Engineering Aug 2004
B.E. in Electronic and Electrical Engineering Aug 2004
Pohang University of Science and Technology Pohang, Korea
Pagan Cum Laude 3.70/4.30 GPA

Experience

Research Assistant. UT Computer Sciences department. Jan 2008 – now, Jan 2007 – May 2007, July 2006 – Oct 2006. This is with Dr. Kathryn McKinley, and the work includes (1) improving the call graph sampling precision and the inlining decision for Java JIT optimization and (2) building a debugger for the Java/C mixed languages.

Summer Intern. Samsung Advanced Institute of Technology, Korea. Jun 2007 – Aug 2007
With Dr. Kim Hongseok, I worked on the field-sensitive low level pointer analysis for the reconfigurable processor. The goal of this pointer analysis is to improve instruction scheduling in the VLIW processor.

Publications

B. Lee, K. Resnick, M.D. Bond and K.S. McKinley. Correcting the Dynamic Call Graph Using Control Flow Constraints. *16th International Conference on Compiler Construction.* Mar, 2007 (23%=14/60 acceptance rate).

B. Lee. Call Graph Correction Using Control Flow Constraints. The University of Texas at Austin, Department of Computer Sciences. Master’s Thesis. May, 2006.

Skills

Optimizing compiler framework: Jikes RVM (Research Virtual Machine)
Programming languages and tools: Java, C, bash, perl, eclipse, emacs, CVS

Honors and Awards

The Samsung Scholarship, Samsung, Korea (2006-2010)
Verizon Fellowship, Verizon (2005)

IT Scholarship, the Ministry of Information and Communication, Korea (2004-2006)
Honor Scholarship, Pohang University of Science and Technology, Korea (2003-2004)

References

Kathryn S. McKinley

David Bruton Jr. Centennial Professor

Department of Computer Sciences

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