Curriculum Vitae

Jeremy D. Frens

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Calvin College
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Degrees

Ph.D. in Computer Science (2002), Indiana University.

M.S. in Computer Science (1994), Indiana University.

B.A. in Computer Science and Mathematics (1992), Calvin College.

Experience

Since Fall 2000. Assistant Professor of Computer Science at Calvin College.

Fall 1998 through Fall 2000. Assistant Professor of Computer Science at Northwestern College (Orange City, IA).

Fall 1992 through Fall 1998. Associate Instructor at Indiana University. Includes three summers of teaching as an Instructor, with full control of a course.

Summer 1994. Developed course material for an independent study "Introduction to Computing" course at Indiana University.

Honors

Rinck Memorial Prize (1992) from the Math and Computer Department at Calvin College.

Outstanding Associate Instructor (1998) from the Computer Department at Indiana University.

Publications

Matrix Factorization Using a Block-Recursive Structure and Block-Recursive Algorithms. Ph.D. Dissertation (2002). Available as Technical Report 568, Computer Science Department, Indiana University. To be worked into a journal article.
http://www.cs.indiana.edu/Research/techreports/TR568.shtml

Papers at Refereed Conferences

Taming the tiger: teaching the next version of Java. *Proc. 2004 ACM Symp. on Computer Science Education* (2004 March), 151–155.
http://doi.acm.org/10.1145/971300.971356

Factorization with Morton-ordered quadtree matrices for memory re-use and parallelism. *Proc. 2003 ACM Symp. on Principles and Practice of Parallel Programming* (2003 June), 144–154. With D.S. Wise.
http://doi.acm.org/10.1145/781498.781525

Object centered design for Java: teaching OOD in CS-1. *Proc. 2003 ACM Symp. on Computer Science Education* (2003 February), 273–277. With J. Adams.
http://doi.acm.org/10.1145/611892.611986

Language support for Morton-order matrices. *Proc. 2001 ACM Symp. on Principles and Practice of Parallel Programming, SIGPLAN Not.* 36, 7 (2001 July), 24–33. With D.S. Wise, Y. Gu, and G.A. Alexander.
http://doi.acm.org/10.1145/379539.379559

Auto-blocking matrix-multiplication, or Tracking BLAS3 performance from source code. *Proc. 1997 ACM Symp. on Principles and Practice of Parallel Programming*, *ACM SIGPLAN Notices* **32**, 7, (July 1997) 206-216. With D.S. Wise.
http://doi.acm.org/10.1145/263764.263789

Technical Reports

Morton-order Matrices Deserve Compilers' Support. Technical Report 533, Computer Science Department, Indiana University (November 1999). With D.S. Wise.
http://www.cs.indiana.edu/Research/techreports/TR533.shtml

Matrix inversion Using quadtrees implemented in Gofer. Technical Report 433, Computer Science Department, Indiana University (May 1995). With D.S. Wise.
http://www.cs.indiana.edu/Research/techreports/TR433.shtml

Books

Hands on C++ (2003), 3e. Prentice Hall. With J. Adams.
http://cs.calvin.edu/books/c++/intro/3e/HandsOnC++/

Software Projects

A project lead on CCEL Desktop application. The CCEL Desktop provides books from CCEL on a user's local machine complete with searching capabilities.
http://ccel-desktop.sourceforge.net/

The project lead on a No Latte interpreter. No Latte is a language for writing web pages.
http://nolatte.sourceforge.net/

Memberships

Association for Computing Machinery (ACM). Includes membership in special interest groups for computers and society, computer science education, programming languages, and computer graphics.

IEEE Computer Society (affiliate member).

Sigma Xi.

XP West Michigan user group. A group of professionals interested in Extreme Programming.