Selected Recent Publications


Brian Grant, Markus Mock, Matthai Philipose, Craig Chambers, and Susan Eggers. DyC: An Expressive Annotation-Directed Dynamic Compiler for C. Accepted to Journal of Theoretical Computer Science. Also available as technical report UW-CSE-97-03-03, Department of Computer Science and Engineering, University of Washington, January 1998.


Selected Recent Talks

“Whirlwind: A Staged Compilation Infrastructure”
12/99 Sun Microsystems Laboratories, Burlington, MA
12/99 Department of Computer Science, Rutgers, the State University of New Jersey
5/99 Invited talk, Java Server Performance Workshop, IBM T.J. Watson Research Center, Hawthorne, NY
4/99 IBM T.J. Watson Research Center, Hawthorne, NY

“Modular, Statically Typed Multimethods in Dubious”
9/99 Principles of Programming Languages Seminar, School of Computer Science, CMU
5/99 Invited talk, Workshop on Static Analysis and Types, Padova, Italy

“Intermediate Representations and Optimizations for Object-Oriented Languages”
3/98 Invited talk, Second International Workshop on Types in Compilation (TIC '98), Kyoto, Japan

“Towards Diesel, a Next-Generation Object-Oriented Language after Cecil”
1/98 Invited talk, Fifth International Workshop on Foundations of Object-Oriented Languages (FOOL '98), San Diego, CA

“Synergistic Language Design and Implementation Research”
10/95 Department of Computer Science and Engineering, University of Washington
2/96 Programming Systems Seminar, School of Computer Science, CMU
3/96 Department of Computer Science, University of Tokyo
3/96 IBM Tokyo Research Laboratory
4/96 Computer Science Division, University of California at Berkeley
4/96 Department of Computer Sciences, University of Wisconsin
5/96 Computer Science Department, Stanford University
7/96 DEC Systems Research Center, Palo Alto, CA

“Optimizing Compiler Techniques for Dynamically-Typed Object-Oriented Programming Languages, or Making Pure Object-Oriented Languages Popular Through Good Performance”
2/91 Department of Computer Science and Engineering, University of Washington
3/91 Laboratory for Computer Science, MIT
3/91 Department of Computer and Information Sciences, University of Massachusetts at Amherst
3/91 DEC Systems Research Center, Palo Alto, CA
3/91 Advanced Technology Group, Apple Computer, Cupertino, CA
3/91 IBM T.J. Watson Research Center, Hawthorne, NY
3/91 AT&T Bell Laboratories, Murray Hill, NJ
6/91 Computer Systems Laboratory, Stanford University

Panels

1/00 ACM SIGPLAN Workshop on Dynamic and Adaptive Compilation and Optimization (Dynamo ’00)
1/00 Seventh International Workshop on Foundations of Object-Oriented Languages (FOOL ’00)

Selected Recent Program Committee Activities

General chair, International Symposium on Memory Management (ISMM ‘00)
Program committee, International Conference on Functional Programming (ICFP ’00)
Selected Recent Grants and Gifts

- 1999: National Science Foundation grant, with Susan Eggers, $500,000
- 1999: National Science Foundation grant, $199,972
- 1999: IBM Research Award, $40,000 plus equipment
- 1998: Sun Microsystems Academic Equipment Grant, $31,000 plus $30,580 of equipment
- 1997: IBM Faculty Development Award, $40,000
- 1997: Object Technology International, $22,000
- 1994-6: Xerox PARC, $30,000
- 1997: Sun Microsystems Academic Equipment Grant, $74,925 of equipment
- 1996: IBM Faculty Development Award, $39,329 plus approximately $25,000 of equipment
- 1996: IBM Centre for Advanced Studies, $25,000
- 1995: National Science Foundation grant, $148,906
- 1995: IBM Centre for Advanced Studies, $25,000
- 1994: IBM Centre for Advanced Studies, $25,000
- 1994: National Science Foundation Young Investigator Award, $337,500
- 1994: Office of Naval Research contract, with Brian Bershad and Susan Eggers, $3,096,620
- 1993: Sun Microsystems Academic Equipment Grant, $62,880 of equipment
- 1992: Sun Microsystems Laboratories, $25,000
- 1992: National Science Foundation Research Initiation Award, $90,000

Courses Taught

- UW CSE 143: Computer Programming II (undergraduate)
- UW CSE 341: Programming Languages (undergraduate)
- UW CSE 401: Compilers (undergraduate)
- UW CSE 501: Compilers (graduate)
- UW CSE 505: Programming Languages (graduate)
- UW CSE 583: Programming Languages (graduate, professional masters program)
- UW CSE 590: Seminars in Object-Oriented Systems, in Denotational Semantics, in Compilers, in Programming Language Design, and in Parallel Programming Languages (all graduate)

Graduate Students Graduated

- David Grove, Ph.D., October 1998
- Jeffrey Dean, Ph.D., December 1996
- Charles Garrett, Master’s, March 1994
- Jean Kaiser, Master’s, June 1993
- Stuart Williams, Master’s, March 1993
- Claudia Chiang, Master’s, March 1993

Postdoctoral Students Supervised

- Weimin Chen, 1998