Biographical Sketch: David Notkin

Education

Ph.D. Computer Science   1984
   Carnegie-Mellon University, Pittsburgh PA
   Interactive Structure-Oriented Computing
   Adviser, A.N. Habermann

Sc.B. Computer Science *cum laude* with honors   1977
   Brown University, Providence RI

Employment

University of Washington, Department of Computer Science & Engineering
   Professor   1994-
   Boeing Professor of Computer Science & Engineering   1999-2004
   Associate Professor   1989-1994
   Assistant Professor   1984-1999
IBM Haifa Research Laboratory
   Visiting Researcher   11/1997-2/1998
Osaka University, Department of Information and Computer Science
   Visiting Associate Professor   9/1990-6/1991
Tokyo Institute of Technology, Department of Computer Science
   Visiting Associate Professor   6/1990-9/1990

Ten Selected Publications

- William Chan, Richard Anderson, Paul Beame, Steve Burns, Francesmary Modugno, David Notkin, Jon Reese. Model Checking of Large Software Specifications. *IEEE Transactions on Software Engineering 24*, 7, pp. 498—520 (July 1998).
- Gail Alverson, William G. Griswold, Calvin Lin, David Notkin and Lawrence Snyder. Abstractions for Portable, Scalable Parallel Programming. *IEEE Transactions on Parallel and Distributed Systems*, Vol. 9, No. 1, (January 1998).
- Gail C. Murphy, David Notkin, William G. Griswold and Erica S.-C. Lan. An Empirical Study of Static Call Graph Extractors. *ACM Transactions on Software Engineering and Methodology 7,*2 (April 1998), pp. 158--191.
- Gail C. Murphy and David Notkin. Reengineering with Reflexion Models: A Case Study. *IEEE Computer 30,*8 pp. 29-36 (August 1997). Translated (Japanese) and reprinted in *Nikkei Computer*, 19 (January 1998), pp. 161-169.
- Kevin Sullivan, Ira J. Kalet and David Notkin. Mediators in a Radiation Treatment Planning Environment. *IEEE Transactions on Software Engineering 22,*8, pp. 563--579 (August 1996).
- Gail C. Murphy and David Notkin. Lightweight Lexical Source Model Extraction. *ACM Transactions on Software Engineering and Methodology 5,*3, pp. 262-292 (July 1996).
- William G. Griswold and David Notkin. Architectural Tradeoffs for a Meaning-Preserving Program Restructuring Tool. *IEEE Transactions on Software Engineering 21,*4, pp. 275—287 (April 1995).
- Gail A. Alverson and David Notkin. Program Structuring for Effective Parallel Portability*. IEEE* Transactions on Parallel and Distributed Systems 4,9, pp. 1041--1059 (September 1993).

- William G. Griswold and David Notkin. Automated Assistance for Program Restructuring. ACM Transactions on Software Engineering and Methodology 2,3 pp. 228--269 (July 1993).
- Kevin Sullivan and David Notkin. Reconciling Environment Integration and Component Independence. ACM Transactions on Software Engineering and Methodology 1,3, pp. 229--268 (July 1992).

Selected Grants and Contracts

Department of Education   1999-2002 $1,383,384
Principal Investigator (with D. Szatmary)
Learning Anytime Anyplace: A Partnership to Address the Acute Lack of Skilled Internet Professionals in Business and Education

Microsoft Corporation (gifts)   1995-1999 $38,000

National Science Foundation   1998-1998 $70,000
Principal Investigator (with R. Anderson, P. Beame)
Applying Model Checking to Large Software System Specifications

National Science Foundation/DARPA   1996-1999 $150,000
Principal Investigator
Reasoning about (Practical) Implicit Invocation Systems

National Science Foundation/DARPA   1995-1998 $245,000
Principal Investigator (with K. Sullivan)
Software Reflexion Models

Selected Professional Activities and Honors

- ACM Fellow (1998).
- National Science Foundation Presidential Young Investigator Award (1988).
- IBM Faculty Development Award (1985).
- Program Committee Co-chair, ICS2000: Software — Theory and Practice (part of IFIP World Computer Conference 2000), August 2000.
- Program Committee Co-chair, 17th International Conference on Software Engineering, April 1995.
- Program Committee Chair, ACM SIGSOFT '93 Symposium on Foundations of Software Engineering, December 1993.
- International Conference on Software Engineering Steering Committee (1993-2006, chair 1994-96).
- ACM SIGSOFT Chair (1997-2001).
- ACM SIG Governing Board Executive Committee (1998-2001).
- Invited Keynote, Sixth IEEE International Conference on Engineering of Complex Computer Systems (ICECCS'2000, September 2000).
- Distinguish Lecture, Michigan State University (March 2000).
- Distinguished Lecture, University of Alberta, March 1997.

Ph.D Student Supervision

Amir Michail (2000), Michael Ernst (2000), William Chan (1999), Yoshito Yamane (1997), Kingsum Chow (1996), Gail C. Murphy (1996), Martin J. Sirkin (1994), Kevin J. Sullivan (1994), William G. Griswold (1991), Sung K. Chung (1990), Gail Alverson (1990), Douglas Wiebe (1990).