Stanley B. Zdonik

Curriculum Vitae

January, 2012

1. Personal

Professor
Department of Computer Science
Brown University
Providence, RI 02912

2. Home Address

139 Phillips Brooks Road
Westwood, MA 02090

3. Education

Bachelor of Science, MIT, Electrical Engineering (Computer Science), June 1970
Bachelor of Science, MIT, Industrial Management, June 1970
M.S., Electrical Engineering and Computer Science, June 1980
Electrical Engineer, MIT, Electrical Engineering and Computer Science, June 1980
Ph.D., MIT, Electrical Engineering and Computer Science, March 1983

4. Professional Appointments

1968-1972	QEI, Inc., Senior Systems Programmer
1972-1976	Bolt Beranek and Newman, Inc., Senior Systems Analyst
1976-1983	MIT, Laboratory for Computer Science, Database Systems/Office Automation Group
1979-1981	Arthur D. Little, Inc., Database Systems Group
1983-1989	Assistant Professor of Computer Science, Brown University
1990-1991	Research Affiliate, MIT Laboratory for Computer Science
1989-1995	Associate Professor of Computer Science, Brown University
1995- present	Professor of Computer Science, Brown University
2003- 2006	(co-founder) Chief Architect, StreamBase Systems, Inc.
2005-2007	(co-founder) Chief Architect, Vertica Systems, Inc.
2006-2007	Visiting Research Scientist, MIT Laboratory for Computer Science

5. Honors

- Office of Naval Research - Young Investigator Award (1986)

- IBM Associate Professor of Computer Science (1993)

- Best Demo Award, ACM Conference on the Management of Data (SIGMOD), Baltimore, MD, June, 2005, *Distributed Operation in the Borealis Stream Processing Engine* .

- ACM Fellow (2006)

6. Board Memberships

1988 - 1994	Board of Technical Advisors, Object Design, Inc., Burlington, MA
1994 - 1999	Advisory Board for Institute for Medical Computing, Brown University
2004 – 2010	Member of the Board of Trustees of the VLDB (Very Large Databases) Endowment
2003 – 2010	Technical Advisory Board, Streambase Ssytems, Lexington, MA
2005 – 2010	Technical Advisory Board, Vertica Systems, Billerica, MA
2009--2011	Technical Advisory Board, Attivio, Inc., Newton, MA

7. Consultancies

1979-1981	Arthur D. Little, Inc., Cambridge, MA
1980-1981	GTE Laboratories, Waltham, MA
1980-1981	Raytheon Data Systems, Dedham, MA
1981	MIT, Industrial Liaison Program
1981-1982	Interactive Data Corporation, Waltham, MA
1983	University of North Carolina, Chapel Hill, NC
1983	Microelectronics Center of North Carolina, Research Triangle Park, NC
1983-1985	Mosaic Technologies, Billerica, MA
1985	Smith-Barney, New York, NY
1985	Goodyear Tire and Rubber Company, Akron, OH
1985	Teradyne, Inc., Boston, MA
1986-1987	Ontologic Inc., Billerica, MA
1986-	Digital Equipment Corporation, Marlboro, MA
1987-1989	Computer Corporation of America, Cambridge, MA
1989	Salomon Brothers, New York, NY
1989-1991	Xerox Advanced Information Technologies, Cambridge, MA
1990	Venerable, Baetcher, and Howard, Baltimore, MD
1990	Prime/Computervision, Inc., Bedford, MA
1991	BLOC Development Corp., Boca Raton, FL
1991	GTE, Waltham, MA
1992	Nutter, McClennon, and Fish, Boston, MA
1993	Electronic Book Technologies, Providence, RI
1993	Matsushita Information Technology Lab, Princeton, NJ
1994	Aquidneck Systems International, North Kingston, RI
1995	NASA CESDIS, Greenbelt, MD
1997 - 1998	C.J. Fox, Company, Providence, RI
1997 - 2001	GTE Laboratories, Waltham, MA
1999 - 2005	GeoCenters, Inc., Newton, MA (for US Army Institute for Environmental Medicine

2000 - 2001   Kirkland and Ellis, Chicago, IL
2000 – 2001   Weil, Gotsal, and Manges, San Francisco, CA
2003 – 2009   StreamBase Systems, Inc, Lexington, MA
2005 – 2009   Vertica Systems, Andover, MA
2009 - 2010   Choate, Hall, & Stewart, Boston, MA
2009-2010   Kodak, Rochester, NY
2009-present   AvePoint, Inc., Jersey City, NJ

8. Research Areas

Advanced query languages and optimization
Stream data management
High-speed data warehouses
Scientific databases
Automatic database design

9. Publications

Publications in Refereed Journals and Conferences

1. ''The Implementation of the PROPHET System'', in *AFIPS Conference Proceedings* **43** (1974).

2. ''MISSION: A Low-cost Data Management System for the Biomedical Community'', in *Proceedings of the First Annual Symposium on Computer Applications in Medical Care*, Washington, DC (October 1977).

3. ''Knowledge-based Query Processing'' (with Michael Hammer), in *Proceedings of the International Conference on Very Large Databases (VLDB)*, Montreal, CA (October 1980).

4. ''Object Management System Concepts'', in *Proceedings of the Conference on Office Information Systems*, Toronto, CA (June 1984).

5. ''An Object Management System for Office Applications'', in *Languages for Automation*, Plenum Publishing (1985).

6. ''MBE: A Decision Support System for Management by Exception'' (with D. Green), in *Proceedings of the Hawaii International Conference on Systems Science*, HI (January 1985).

7. ''ISIS: Interface for a Semantic Information System''(with K. Goldman, S. Goldman, and P. Kanellakis), in *Proceedings of the ACM-International Conference on Management of Data (SIGMOD)*, Austin, TX (May l985).

8. ''A Database Approach to Languages, Libraries and Environments'', in *Proceedings of the Workshop on Software Environments for Programming in the Large*, Harwichport, MA (June l985). (Also in Papers for the Appin Workshop on

Persistence and Data Types, University of Glasgow, Department of Computer Science.)

9. ''Object Management Systems for Design Applications'', *Special Issue of IEEE Database Engineering* (December 1985).

10. ''Language and Methodology for Object-Oriented Database Environments'' (with P. Wegner), in *Proceedings of the Hawaii International Conference on System Science*, (January 1986).

11. ''A Knowledge-Based Approach to Query Optimization'' (with C. Malley), in *Proceedings of the First International Conference on Expert Systems* (April 1986).

12. ''Version Management in an Object-Oriented Database'', in *Proceedings of the International Workshop on Advanced Programming Environments for Programming in the Large,* Trondheim, Norway, Springer-Verlag, (June 1986).

13. ''A Visual Interface to Version Management in Semantic Database Model'' (with J. Davison), *ACM Transactions on Office Information Systems* (July 1986).

14. ''An Object Server for an Object-Oriented Database System'' (with A.H. Skarra and S.P. Reiss), in *Proceedings of the International Workshop on Object-Oriented Database Systems,* Pacific Grove, CA (September 1986).

15. ''Maintaining Consistency in a Database with Changing Types,'' *Proceedings IBM Object-Oriented Programming Workshop, Sigplan Notices* (October 1986).

16. ''The Management of Changing Types in an Object-Oriented Database,'' *Proceedings of OOPSLA Conference, Sigplan Notices* (November 1986).

17. ''Why Properties are Objects or Some Problems with is-a,'' in *Proceedings of the Fall Joint Computer Conference,* Dallas, TX (November 1986).

18. ''Type Evolution in an Object-Oriented Database System'' (with A. Skarra), in *Research Directions in Object-Oriented Programming,* Addison-Wesley (1987).

19. ''The Implementation of a Shared, Clustered Memory System for an Object-Oriented Database System,''(with M. Hornick) *ACM Transactions on Office Information Systems* (April 1987).

20. ''Can Objects Change Type? Can Type Objects Change?'', *Proceedings of the Workshop on Database Programming Languages,''* (September 1987).

21. ''Object Oriented Type Evolution,'' in *Proceedings of the Workshop on Database Programming Languages,* ACM Press, Addison-Wesley, 1987.

22. ''Intermedia: A Case Study of the Differences Between Relational and Object-Oriented Databases,'' (with K. Smith) in *Proceedings of the Conference on Object-Oriented Systems, Languages, and Applications* (October 1987).

23. ''Issues in the Design of Object-Oriented Database Programming Languages,'' (with T. Bloom) in *Proceedings of the Conference on Object-Oriented Systems, Languages, and Applications,* (October 1987).

24. ''FUGUE: A Model for Engineering Information Systems and other Baroque Applications,''(with S. Heiler) in *Proceedings of the Jerusalem Conference on Database Systems* (June 1988).

25. ''Type Similarity, Inheritance, and Evolution,'' (with P. Wegner) in *Proceddings of the Second European Conference on Object-Oriented Programming (ECOOP),* Oslo, Norway (August 1988).

26. ''Concurrency Control in Object-Oriented Databases,'' (with A. Skarra) *in Object-Oriented Concepts, Applications, and Databases,* ed. Won Kim and Fred Lochovsky, Addison-Wesley (1988).

27. ''Views, Data Abstractions, and Inheritance in the FUGUE Data Model,'' (with S. Heiler), in *Advances in Object-Oriented Database Systems,* Lecture Notes in Computer Science, Vol. 334, K.R. Dittrich, ed., Springer Verlag (1988).

28. ''Data Abstraction and Query Optimization,'' in *Advances in Object-Oriented Database Systems,* Lecture Notes in Computer Science, Vol. 334, K.R. Dittrich, ed., Springer Verlag (1988).

29. ''Query Optimization in Object-Oriented Database Systems," in '*Proceedings of the Hawaii Conference on Systems Science,* (January 1989).

30. ''Transaction Groups: A Model for Controlling Cooperative Transactions," *Proceedings of the Third International Workshop on Persistent Object Systems*, Queensland, Australia (January 1989).

31. ''Fundamentals of Object-Oriented Databases'' (with D. Maier), in *Readings in OODBs*, S. Zdonik and D. Maier (Editors), Morgan Kaufmann (1989).

32. ''An Object-Oriented Query Algebra'' (with G. Shaw), in *Proceedings of the Second International Workshop on Database Programming Languages*, Gleneden Beach, OR (June 1989).

33. Stanley B. Zdonik, Toby Bloom, David W. Stemple, Jeannette M. Wing: Panel on Transactions in Object-Oriented Systems. OOPSLA 1989: 473-476

34. ''Object-Oriented Queries: Equivalence and Optimization'' (with G. Shaw), in *Proceedings of the First International Conference on Deductive and Object-Oriented Databases (DOOD)*, Kyoto, Japan (December 1989).

35. ''The Object-0riented Database System Manifesto'' (with Atkinson, Bancilhon, Dewitt, Dittrich and Maier), in *Proceedings of the First International Conference on Deductive and Object-Oriented Databases (DOOD)*, Kyoto, Japan (December 1989) .

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