

# Yuri Breitbart

## Education

- D.Sc. in Computer Science - Computer Science Department, Israel Technological Institute (TECHNION), Haifa, Israel.
- MS in Mathematics - Mathematics Department, Moscow Pedagogical Institute, Moscow, Russia.

**Current Research Interests:** Distributed Database Systems, Transaction Management in Distributed Database Systems, Distributed File Systems, Transaction Models, Network Protocols, Network Management Systems, Medical Informatics

## Professional Experience

2002 - current: Ohio Board of Regents Distinguished Professor of Computer Science, Kent State University, Kent, OH 44240

1996 - 2002: Member (Distinguished Member since 2001) of Technical Staff, Bell Laboratories, Lucent Technologies, Murray Hill, NJ 07974.

1993 - 1994: Guest Professor, Information Systems Department, Swiss Institute of Technology, Zurich, Switzerland.

1986 - 1998: Professor and Chairman (till 1993), Computer Science Department, University of Kentucky, Lexington, KY 40506

1981 - 1986: Manager, Database Research Group, Amoco Production Company - Research Center, P.O. Box 3385, Tulsa, Oklahoma 74102

1979 - 1981: Manager, Database Evaluation, ITT - Programming Technology Center, 1000 Oronoque Lane, Stratford, Connecticut 06497

1978 - 1979: Associate Professor of Computer Science, Electrical Engineering and Computer Science Department University of Wisconsin, Milwaukee, Wisconsin 53201

1975 - 1978: Assistant Professor of Computer Science, Computer Science Department, SUNY at Albany, NY 12222

1974 - 1975: Lecturer, Department of Computer Science, Israel Technological Institute (TECHNION), Haifa, Israel

## Other Academic Appointments

2007-2008: Visiting Professor, Department of Computer Science, Israel Technological Institute (TECHNION), Haifa, Israel.

2007: Senior Researcher, University of Basel, Switzerland.

2003: Guest Professor at Swiss Institute of Technology, Zurich, Switzerland.

2003: Guest Professor at University of Innsbruck, Austria.

## Awards

ACM Fellow 2001

Distinguished Member of Technical Staff, Bell Labs - 2001

Bell Lab President Teamwork Award - 2003

Lucent Technology Gold award for participation in the design and development of NetInventory Product 2004

Lady Davis Fellowship, Israel Technological Institute, 2007.

## Memberships

Member of ACM, SIGMOD, and IEEE Computer Society

## Other Professional Activities

*Reviewer for:*

IEEE Transaction on Computers; National Science Foundation; Mathematical Review; CACM; Data and Knowledge Engineering; JACM; Transactions on Knowledge Engineering; BIT; Transactions of ACM on Database Systems; Computing Surveys; The VLDB Journal; Distributed and Parallel Databases International Journal; SIAM Journal on Computing; Information Systems; Software - Practice and Experience; IEEE Transaction On Networking, IEEE Communication Newsletter.

*Organizer and Chair:*

Chairman of Panel Discussion on Heterogeneous Distributed Database Systems, 3rd International Conference on Entity-Relationship, 1983; Chairman of Panel Discussion on Design Issues in the Distributed Heterogeneous Database Systems, 3rd Seminar on Distributed Data Sharing Systems, Parma, Italy, 1984; Chairman of Panel Discussion on Multidatabases and Semantic Interoperability, VLDB91, Barcelona, Spain, 1991; Chairman of Panel Discussion on Semantic integration Issues in Multidatabases, IEEE Workshop on RIDE/TQP, 1992, North America Chair for VLDB95, Organizer of the 1996 Dagstuhl Seminar on Transactional Workflows, General Chair of RIDE97-IEEE workshop. Organizer and Co-Chair of the 1999 Workshop on distributed data structures

*Program Committee Member:*

4th International Conference on Entity-Relationship, 1985; Workshop on Multidatabase and Semantic Interoperability, Denver, 1991; First International Workshop on Interoperability in Multidatabase Systems, Kyoto, Japan, 1991; RIDE-IMS 1993, SIGMOD 1993, International Conference on Data Engineering 1994, Parallel and Distributed Databases Conference, 1994, International Conference on Data Engineering 1995, NGITS workshop 1995, SIGMOD 96, PDIS 96. NGITS workshop 1997, ADBIS97, ADBIS98, ADBIS99, 8th International Workshop on Foundations of Models and Languages for Data and Objects 1999. Member of numerous NSF panels on selection of NSF Awards, SIGMOD2000, PODS2000, ADBIS2000, COOPIS2000, WDAS2000, WDAS2001, NSF Workshop On Wireless Infrastructure 2001, FCS2001, WDAS2002, WDAS2003, WDAS2004, ICDM2004, I2CS International Workshop 2006, I2CS International Workshop 2007, VLDB 2006, PODS 2007, Program Chairman, Workshop on Applied Computing, Tulsa, 1986; Workshop on Multidatabase and Semantic Interoperability, Tulsa, 1990.

Member of Editorial Board, Distributed and Parallel Databases An International Journal.

Consultant for numerous corporations, including Hewlett-Packard, Boeing, Amoco, IBM, MITL.

## Patents & Publications

### Patents

1. Breitbart, Y., Thompson, G. R., "A Method for Consistent Multidatabase Transaction Processing", U.S. Patent #4,881,166, 1990.

2. Breitbart, Y., Korth, H.F., "Method And System For Managing Replicated Data With Enhanced Consistency and Concurrency", U.S. Patent #5,864,851, 1999.
3. Breitbart, Y., Korth, H.F., Silberschatz, A., "Concurrency Control Protocols for Managing Replicated Data in a Database System", U.S. Patent #5,999,931 , 1999.
4. Breitbart, Y., Komondoor, R., Rastogi, R., Seshadri, S., Siberschatz, A., "Timestamp-Based System And Method For Serializing Lazy Updates In A Distributed Database" , US patent #6,502,095, 2002
5. Breitbart, Y., Komondoor, R., Rastogi, R., Seshadri, S., Siberschatz, A., "System And Method for Serializing Lazy Updates In A Distributed Database Without Requiring Timestamps", US patent #6,381,609, 2002.
6. Breitbart, Y., Komondoor, R., Rastogi, R., Seshadri, S., Siberschatz, A., "System And Method For Serializing Updates To Ancestor Sites In A Distributed Database", US patent #6,499,037, 2002.
7. Breitbart, Y., Blott, S., Baulier, J., Korth, H., "Real-Time Event-Processing System With Service Authoring Environment", US patent #6,681,230, 2004.
8. Breitbart, Y., Garofalakis, M., Martin, C., Rastogi, R., Seshadri, S., Silberschatz, A., "Determination of Physical Topology of A Communication Network", US patent #6,697,338, 2004.
9. Breitbart, Y., Blott, S., Martin, C., "Method And Apparatus For Applying Once-Only Processing In A Data Network", US patent #6,721,314, April 2004
10. Breitbart, Y., Vingralek, R. "Method and Apparatus for retrieving a network file using a logical reference" US patent, #6,963,914, November 2005.
11. Anupam, V., Breitbart, Y., Kumar, B., Freire, J., "Method And Apparatus For Web-Site-Independent Personalization From Multiple Sites Having User-Determined Extraction Functionality" US Patent 6,976,210, December 2005.
12. Breitbart, Y., Garofalakis, M., Kumar, A., Rastogi, R. "System and Method for Optimizing Open Shortest Path First Aggregates and Autonomous Network Domain Incorporating the Same", US Patent 7,082,473, July 2006.
13. Bejerano, Y., Breitbart, Y., Orda, A., Rastogi, R., Sprintson, A. "System and Method for Provisioning QoS Paths with Restoration in a Network", US Patent 7,409,459, August 2008.
14. Bejerano, Y., Breitbart, Y., Orda, A., Garofalakis; Minos, Rastogi, R. "System and Method for Determining the physical topology of a network having multiple subnets", US Patent 7,535,911, May 2009.

## **Books & Book Chapters**

15. Breitbart, Y., Tieman, L., "ADDS - Heterogeneous Database System, in Distributed Data Sharing Systems", editors F. Schreiber and W. Litwin, North Holland, 1985.
16. Breitbart, Y., Paolini, P., "The Multibase Session", (Chairman's Report), in Distributed Data Sharing Systems, editors F. Schreiber and W. Litwin, North Holland, 1985.
17. Breitbart, Y., Olson, P. L., Thompson, G. R. "Database Integration Issues in A Distributed Heterogeneous Database System, Proceedings of the 2nd Database Engineering Conference, 1986. (reprinted in: (1) Integration of Information Systems: Bridging Heterogeneous Databases, by Amar Gupta, IEEE Press, 1989. (2) Multidatabase Systems: An Advanced Solution for Global Information Sharing, by A.R. Hurson, M.W. Bright, S. Pakzad, IEEE Computer Society Press, 1993).

18. Breitbart, Y., Silberschatz, A., Thompson, G. "Transaction Management in a Multidatabase Environment", in "Integration of Information Systems: Bridging Heterogeneous Databases", ed. A. Gupta, IEEE Press, 1989.
19. Breitbart, Y., G., Reyes, T., "An Overview of the ADDS System", Modern Database Systems: The Object Model, Interoperability, and Beyond Addison-Wesley 1995 (invited paper).
20. Breitbart, Y., Garcia-Molina, H., Silberschatz, A., "Transaction Management in Multidatabases", Modern Database Systems: The Object Model, Interoperability, and Beyond editor Won Kim, Addison-Wesley 1995. (invited paper)
21. Y. Breitbart, H. Korth, A. Silberschatz, S Sudarshan "Distributed Transaction Management", Encyclopedia of Computer Science, 1998 (invited paper)
22. Y. Breitbart, S. Das, N. Santoro, P. Widmayer eds. Distributed Data and Structures - Records of the 2d International Meeting Carleton Scientific Press, 1999.
23. Y. Breitbart, Henry F. Korth, Abraham Silberschatz "Optimistic Protocol for Replicated Databases", 2009.

### Journal Publications

24. Breitbart, Y., "Essential variables of Boolean Function", Dokl. Acad. Nauk, SSSR 172, 1, (1967) (English Translation: Soviet Math. Dokl. 8).
25. Breitbart, Y., "Comparison of Complexities of Realization of Boolean Functions by Automata and Turing Machines", Dokl. Acad. Nauk, SSSR 180, 5, (1968) (English Translation: Soviet Physics Dokl. 13).
26. Breitbart, Y., Kozmidiadi, V., "Two Subclasses of Turing Machines Reducible to Finite Automata", Dokl. Acad. Nauk SSSR, 187, 1 (1969) (English Translation: Soviet Math. Dokl. 10).
27. Breitbart, Y., "Realization of Boolean Functions by Finite Automata", NTL, Seria Automatica, Telemechanica and Priborostroenie, 1970, (Russian).
28. Breitbart, Y., "An Automata and Tape Complexity of the Predicate ' to be k-th power on an integer'", Dokl. Acad. Nauk, 196, 1, 1971 (English Translation: Soviet Math Dokl. 12).
29. Breitbart, Y., Kozmidiadi, V., "Some Subclasses of Turing Machines", Kibernetika, 1, 1972, (English Translation: Cybernetika, 1, NY).
30. Breitbart, Y., Reiter, A., "Algorithms for Fast Evaluation of Boolean Expressions", Acta Informatica, 4, 2, 1975.
31. Breitbart, Y., Reiter, A., "A Branch-and-Bound Algorithm for Optimal Evaluation of Monotonic Boolean Functions", Acta Informatica, 4, 4 (1975)
32. Breitbart, Y. "Some Bounds on the Complexity of Predicate Recognition by Finite Automata", Journal of Computer and System Science, 12, 3, 1976.
33. Perl, J., Breitbart, Y., "Optimal Sequential Arrangement of Evaluation Trees for Boolean Functions", Information Sciences, 11, 1976.
34. Breitbart, Y., Gal, S., "Analysis of Algorithms for the Evaluation of Monotonic Boolean Functions", IEEE Transactions on Computers, 27(11), 1978.
35. Breitbart, Y., Lewis, F., "Combined Complexity Classes", RAIRO, Informatique Theorique, 13, 1979.

36. Breitbart, Y., "The Computational Complexity of a Class of Minimization Algorithms for Switching Functions", IEEE Transactions on Computers, 28(11), 1980.
37. Abramson, F., Breitbart, Y., Lewis, F. "Complex Properties of Grammars", Journal of Association of Computer Science, 27, 3, 1980.
38. Breitbart, Y., "The ORACLE DBMS - Evaluation Report", ITTCommNet, July, 1981.
39. Breitbart, Y., Silberschatz, A., Thompson, G. R., "An Approach to the Update Problem in Multidatabase Systems", IEEE Database Engineering (Special Issue on Multidatabases), 1987
40. Breitbart, Y., Silberschatz, A., "Multidatabase Systems with a Decentralized Concurrency Control Scheme", IEEE Distributed Processing Newsletter (Special issue on Multidatabases), 1988.
41. Breitbart, Y., "Multidatabase Interoperability", SIGMOD Record, September 1990. (reprinted in Multidatabase Systems: An Advanced Solution for Global Information Sharing, by A.R. Hurson, M. W. Bright, and S. Pakzad, IEEE Computer Society Press, 1993)
42. Breitbart, Y., Georgakopoulos, D., M. Rusinkiewicz, Silberschatz, A., "On Rigorous Transaction Scheduling", IEEE Transaction on Software Engineering, 17(9), 1991.
43. Breitbart, Y., Silberschatz, A., Thompson, G. R., "Transaction Management Issues in a Failure-Prone Multidatabase System Environment", VLDB Journal, 1:1, 1992
44. Breitbart, Y., Garcia-Molina, H., Silberschatz, A., "Overview of Multidatabase Transaction Management", VLDB Journal, 1:2, 1992. (invited paper)
45. Breitbart, Y., Silberschatz, A., "Performance Evaluation of Two Multidatabase Transaction Management Algorithms", Computing Systems: The Journal of the USENIX Association, #3, 1993
46. Breitbart, Y., A. Deacon, H.-J. Schek, A. Sheth, G. Weikum, Merging Application-Centric and Data-Centric Approaches to Support Transaction-Oriented Multi-system Workflows, SIGMOD Records, September 1993.
47. G. Alonso, R. Vingralek, D. Agrawal, Y. Breitbart, A. El Abbadi, H. Schek, G. Weikum, "Unifying Concurrency Control and Recovery of Transactions", Information Systems, 19, 1, 1994.
48. Breitbart, Y., Hunt III, H., Rosenkrantz, D., "On the Size of Binary Decision Diagrams Representing Boolean Functions", Theoretical Computer Science, vol. 147, September, 1995
49. J. Shallit, Y. Breitbart Automaticity I: Properties of a Measure of Descriptive Complexity Journal of Computer and System Sciences, 1996
50. Y. Breitbart, R. Vingralek, G. Weikum, "Load Control in Scalable File Structures", Distributed and Parallel Databases, 4, 1, 1996
51. R. Rastogi, S. Mehrotra, Y. Breitbart, H. Korth, A. Silberschatz "On Correctness of non-serializable Executions", Journal of Computer and System Sciences, 1998
52. R. Vingralek, Y. Breitbart, G. Weikum, SNOWBALL: Scalable Storage on Networks of Workstations with Balanced Load, Distributed and Parallel Databases, 6, 2, 1998
53. R. Vingralek, H. Hasse-Ye, Y. Breitbart, H.-J. Schek Unifying Concurrency Control And Recovery of Transactions with Semantically Rich Operations, Theoretical Computer Science, 190, 2, 1998
54. M. Sayal, Y. Breitbart, P. Scheuermann, R. Vingralek Selection Algorithms for Replicated Web Servers ACM SIGMETRICS Performance Evaluation Review, 26, 3, 1998

55. Y. Breitbart, H. Korth Management of Replicated Data *Journal of Computer and System Sciences* 59(1), 1999
56. Y. Breitbart, H. Korth Data Replication Gaining Popularity *IEEE Concurrency*, 2, 1999
57. Y. Breitbart, S. Das, N. Santoro, P. Widmayer Introduction: Distributed Data and Structures 2, *WDAS* 1999.
58. S. Blott, C. Martin, Y. Breitbart, T. Gramaglia, H. Korth, D. Kristol, R. Liao, E. Scanlon, A. Silberschatz User-Level Billing and Accounting in IP Networks, *Bell System Technological Journal*, 4, 4, 1999.
59. R. Vingralek, Y. Breitbart, M. Sayal, P. Scheuermann, Web++ Architecture, Design and Performance *World Wide Web* 3(2), pp. 65-77, 2000.
60. S. Mehrotra, R. Rastogi, Y. Breitbart, H.F. Korth, A. Silberschatz, Overcoming Heterogeneity and Autonomy in Multidatabase System *Information and Computation*, 167, 132-172, 2001
61. R. Rastogi, Y. Breitbart, M. Garofalakis, A. Kumar, Optimal Configuration of OSPF Aggregates, *IEEE/ACM Transaction on Networking*, 11,2, 2003
62. Y. Breitbart, M. Garofalakis, Ben Jai, R. Rastogi, A. Silberschatz Topology Discovery in Heterogeneous IP Networks: The NetInventory System *IEEE/ACM Transaction on Networking*, 12, 3, 2004
63. Y. Bejerano, Y. Breitbart, R. Rastogi, A. Orda, A. Sprintson Algorithms for Computing QoS path with Restoration, *IEEE/ACM Transaction on Networking*, 13,3, June 2005
64. Gurm, Hitinder; Breitbart, Yuri; Vivekanathan, Deepak; Yeh, Michael; Fathi, Robert; Ziada, Khaled; Whitlow, Patrick, Ellis, Stephen Preprocedural statin use is associated with a reduced hazard of post-procedural myonecrosis in patients undergoing rotational atherectomy - a propensity adjusted analysis. *American Heart Journal*, 151(5):pp 1-6, 2006
65. Vibha Tripathi, Yuri Breitbart Replica Management in Content Distribution Networks *IADIS International Journal on WWW/Internet*, Vol 4, No. 1, pp. 43-54, 2006
66. Yuri Breitbart and Hassan Gobjuka, Characterization of Layer-2 Unique Topologies, *Information Processing Letters*, 2008.
67. Xingquan Zhu, Ruoming Jin, Yuri Breitbart and Gagan Agrawal, MMIS, 08: mining multiple information sources, *SIGKDD Explorations* 10(2), 62-65 (2008).
68. Ruoming Jin, Yuri Breitbart and Chibuike Muoh, Data Discretization Unification, *Knowledge and Information Systems International Journal*, (invited paper), Springer Verlag, 29 pages, vol. 19, No. 1, April 2009.
69. Yuri Breitbart, Feodor Dragan, Hassan Gobjuka Effective Monitor Placement in Internet Networks, *Journal of Networks*, 4, 7, 2009.
70. Hassan Gobjuka, Yuri Breitbart, "Ethernet Topology Discovery for Network with Incomplete Information" *Transaction on Networking*, 6, 1, 2010

### **Refereed Proceedings**

71. Breitbart, Y., Kozmidiadi, V., Voskresenski, V., "Human - Machine Systems", *Proceedings of Conference on Mathematical Software of Automatic Control Systems*, 1971, Kiev, (Russian).
72. Breitbart, Y., Kozmidiadi, V., Voskresenski, V., "Languages for Human - Machine Systems", *Proceedings of Conference on Mathematical Software of Automatic Control Systems*, 1971, Kiev, (Russian).

73. Breitbart, Y., Lewis, F., "Combined Complexity Classes", Proceedings of the 1977 Johns Hopkins Conference on Information Sciences.
74. Breitbart, Y., Lewis, F., "Time-Space Trade-off for Complete Undecidable Problems", Proceedings of the 1978 Johns Hopkins Conference on Information Sciences.
75. Breitbart, Y., "A Family of Boolean Functions with Non Linear Formula Size", Proceedings of 16th Allerton Conference on Communication, Control and Computing, 1978.
76. Breitbart, Y., "Issues in Multiple Database Environments", In "Entity-Relationship Approach to Software Engineering", North-Holland, 1983, pp 807-808.
77. Breitbart, Y., Kemp, F., Thompson, G., Silberschatz, A., "Performance Evaluation of a Simulation Model for Data Transfer in the Heterogeneous Database Environment", Proceedings of Trends and Application 1984 Conference.
78. Breitbart, Y., Hartweg, L., "Rim as an Implementation Tool for Distributed Heterogeneous Database System", Proceedings of a National Symposium IPADII, Advances in Data Base Management for CAD/CAM, 1984.
79. Breitbart, Y., Tieman, L., "ADDS - Heterogeneous Database System (Position Paper)", Proceedings of 3rd Seminar on Distributed Data Sharing System, Parma, 1984.
80. Breitbart, Y., Thompson, G. R. "Design Issues in Distributed Multidatabase Environment", Proceedings of the Workshop on Applied Computing, 1986.
81. Breitbart, Y. "Databases and Logic", Proceedings of the third Annual Conference on Applied Mathematics, Edmond, OK 1987
82. Breitbart, Y., Silberschatz, A., "Multidatabase Update Issues", Proceedings of ACM SIGMOD Conference, 1988.
83. Breitbart, Y., Pyo, S., Kumar, A., Rotithor, H., "Architecture for Heterogeneous Computer Integrated Manufacturing System", Proceedings of ACM 17th Computer Science Conference, 1989.
84. Kumar, A., Baxter, A., Breitbart, Y., "Heterogeneous Distributed Database System for Computer Integrated Manufacturing", Proc. III Annual Symposium on Advanced Manufacturing, Lexington, KY, 1989.
85. Breitbart, Y., Silberschatz, A., Thompson, G. R., "Transaction Management Issues in Autonomous Heterogeneous DBMS (Position paper), Proceedings of the NSF Workshop on Heterogeneous Databases, Evanston, IL, 1989.
86. Breitbart, Y., H. Morales, A. Silberschatz, "Performance Issues in Multidatabase Systems", Proceedings of the NSF Workshop on Heterogeneous Databases, Evanston, IL, 1989.
87. Breitbart, Y., D. Georgakopolous, M. Rusinkiewicz, A. Silberschatz, "Rigorous Scheduling in Multidatabase Transactions", NSF Workshop on Multidatabases and Semantic Interoperability, November, 1990.
88. Breitbart, Y., Silberschatz, A., Thompson, G. R., "Reliable Transaction Management in a Multidatabase System", Proceedings of ACM SIGMOD 1990.
89. Breitbart, Y., Morales, H., Silberschatz, A., Thompson, G. R., "Multidatabase Performance Evaluation", Proceedings of Fifth International Jerusalem Conference on Information Technology, 1990.
90. Breitbart, Y., Litwin, W., Silberschatz, A., "Deadlock Problems in a Multidatabase Environment", Proceedings of Spring 1991 COMPCON Conference, 1991.

91. Breitbart, Y., "Multidatabase and Semantic Interoperability", (Panel Statement), Proceedings of VLDB, Barcelona, 1991.
92. Breitbart, Y., Silberschatz, A., "Strong Recoverability in Multidatabase Environments", Proceedings of RIDE-TQP IEEE, 1992.
93. Breitbart Y., A. Silberschatz, "Multidatabase Transaction Processing Environment", NSF Workshop on Heterogeneous Databases and Semantic Interoperability, February, 1992.
94. Mehrotra, S., Rastogi, R., Breitbart, Y., Korth, H., Silberschatz, A., "Ensuring Transaction Atomicity in Multidatabase Systems", Proceedings of the 11th ACM-SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems, San Diego, 1992.
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96. Yuri Breitbart, Hector Garcia-Molina, Avi Silberschatz "Overview of Multidatabase Transaction Management", Proceedings of the 1992 conference of the Center for Advanced Studies on Collaborative research - Vol 2 Toronto, Ontario, Canada, 1992.
97. Y. Breitbart, W. F. Lee, P. L. Olson, B. Thetford, G. Thompson, B Vassaur, "Distributed Application Architecture", Proceedings of the Amoco Technical Symposium, Naperville, May 1992.
98. Y. Breitbart, Erich Neuhold, Calton Pu, Hans-Joerg Schek, "Issues on Concurrent Transaction and Query Processing, RIDE-TQP, 1992: 77-78.
99. Mehrotra, S., Rastogi, R., Breitbart, Y., Korth, H., Silberschatz, A., "Efficient Global Transaction Management In Multidatabase Systems", Proceedings of the Third International Symposium on Database Systems for Advanced Applications, Taejon, Korea, 1993.
100. Breitbart, Y., Thompson, G., "Interoperability in a Distributed Heterogeneous Software Environment", Proceedings of ETCE Computers in Engineering Symposium, Houston, 1993.
101. Barbara, D., Breitbart, Y., Garcia-Molina, H., Korth, H. F., Mehrotra, S., "Interoperability with Unstructured Data and Services", Proceedings of RIDE/IMS Workshop, Vienna, 1993
102. Mehrotra, S., Rastogi, R., Breitbart, Y., Korth, H., Silberschatz, A., "On Correctness of Non-Serializable Executions", Proceedings of the 12th ACM-SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems, Washington D.C., 1993.
103. Breitbart, Y., A. Silberschatz, A Concurrency Control Protocol in a Multidatabase Environment, Proceedings of the Workshop on Interoperability of Database Systems and Database Applications, University of Fribourg, Switzerland, October, 1993.
104. G. Alonso, R. Vingralek, D. Agrawal, Y. Breitbart, A. El Abbadi, H. Schek, G. Weikum, " A Unified Approach to Concurrency Control and Transaction Recovery", Proceedings of the EDBT 94 Conference, Springer-Verlag, 1994.
105. J. Shallit, Y. Breitbart, "Automaticity: Properties of a Measure of Descriptive Complexity", Proceedings of 11th Symposium on Theoretical Aspects of Computer Science, February, 1994, Springer-Verlag.
106. R. Vingralek, Y. Breitbart, G. Weikum "Distributed File Organization with Scalable Cost/Performance", Proceedings of the 1994 ACM SIGMOD International Conference on Management of Data, Minnesota, 1994.
107. Y. Breitbart "ADDS Transaction Management System" (invited paper) Proceedings of the Second International East/West Database Workshop, September 1994.



108. R. Vingralek, H. Ye, Y. Breitbart, H.-J. Schek "Unified Transaction Management for Semantically Rich Operations" Proceedings of International Conference on Database Theory, 1995
109. R. Vingralek, Y. Breitbart, G. Weikum, Cost/Performance in SNOWBALL Distributed File Manager, Proceedings of DataSem 95, Brno, October 1995.
110. H. Hasse, Y. Breitbart, H. Schek, R. Vingralek, G. Weikum "Unified Theory for Classical and Advanced Transaction Models" Proceedings of the Dagstuhl Seminar, DagStuhl, 1995.
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112. J.Griffioen, T.Anderson, Y.Breitbart A Dynamic Migration Algorithm for a Distributed Memory-Based File Management System, Proceedings of the 7th International Workshop on Research Issues in Data Engineering (RIDE97), 1997.
113. Y. Breitbart, H. F. Korth "Replication and Consistency: Being Lazy Helps Sometimes", Proceedings of the 16th ACM-SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems, Tuscon, AZ, 1997.
114. T. Anderson, Yuri Breitbart, Henry F. Korth, Avishai Wool "Replication, Consistency, and Practicality: Are These Mutually Exclusive?", Proceedings of the 1998 ACM SIGMOD, Seattle, Washington.
115. M. Sayal, Y. Breitbart, P. Scheuermann, R. Vingralek "Server Selection Algorithms for Web Clients" Proceedings of the Workshop on Internet Server Performance", Madison, WI, June 1998
116. Y. Breitbart, R. Vingralek "Distributed and Scalable B+ tree Data Structures" Proceedings of the Workshop on Distributed Data and Structures, Orlando, FL, March 1998.
117. M. Sayal, Y. Breitbart, P. Scheuermann, R. Vingralek "Web++: a system for fast and reliable web retrieval", Proceedings of USENIX99 Technical Conference, 1999
118. M. Sayal, Y. Breitbart, P. Scheuermann, R. Vingralek "A Transparent Replication of HTTP Service", Proceedings of ICDE99, 1999
119. Y. Breitbart, R. Komondoor, R. Rastogi, S. Seshadri, A. Silberschatz, "Update Propagation Protocols for Replicated Databases", Proceedings of the 1999 ACM SIGMOD, Philadelphia, PA
120. V. Anupam, Y. Breitbart, J. Freire, B. Kumar, "Personalizing the Web Using Site Descriptions", IEEE Proceedings of the International Workshop on Internet Data Management '99, Florence, Italy, 1999
121. Y. Breitbart, M. Garofalakis, C. Martin, R. Rastogi, S. Seshadri, A. Silberschatz, "Topology Discovery in Heterogeneous IP Networks", Proceedings of INFOCOM-2000 Conference, March 2000, Tel-Aviv, Israel
122. Y. Breitbart, C. Y. Chan, M. Garofalakis, R. Rastogi, A. Silberschatz, "Efficiently Monitoring Bandwidth and Latency in IP Networks", Proceedings of INFOCOM-2001 Conference, March 2001, Anchorage, Alaska
123. R. Rastogi, Y. Breitbart, M. Garofalakis, A. Kumar "Optimal Configuration of OSPF Aggregates", Proceedings of INFOCOM-2002 Conference
124. Y. Bejerano, Y. Breitbart, A. Orda, R. Rastogi, A. Sprintson "Algorithms for Computing QoS Paths with Restoration", Proceedings of INFOCOM-2003 Conference
125. Y. Bejerano, Y. Breitbart, M. Garofalakis, R. Rastogi "Physical Topology Discovery for Large Multi-Subnet Networks", Proceedings of INFOCOM-2003 Conference

126. Y. Breitbart, Deepakraj Shathilal "Relational Network Manager for IP Networks", Proceedings of International Conference on Internet Computing, 2004 Las Vegas, USA
127. Y. Breitbart, F. Dragan, H. Gobjuka "Effective Network Monitoring", Proceedings of the 13th International Conference on Computer Communications and Networks (ICCCN'04), Chicago, October 2004.
128. Fuat Akal, Yuri Breitbart, Torsten Grabs, Hans-Jorg Schek, Can Turker, Lourens Veen "Fine-Grained Replication, and Scheduling with Freshness and Correctness Guarantees", Proceedings of the 31-t International Conference on VLDB, Trondheim, Norway, August 2005
129. Yuri Breitbart, Vibha Tripathi "Replica Management in Content Distribution Networks" Proceedings of IADIS Conference, Lisbon, Portugal, 2005
130. Hassan Gobjuka, Yuri Breitbart "Characterization of Layer-2 Unique Topologies in Multisubnet Local Area Networks", Proceedings of LCN Conference, Tampa, Florida, 2006 (poster paper)
131. Yuri Breitbart, Minos Garofalakis, Anupam Gupta, Amit Kumar, Rajeev Rastogi "On Configuring BGP Route Reflectors" The Second International Conference on COMMunication Systems SoftWARE and MiddlewaRE, Jan 2007, Bangalore, India
132. Yuri Breitbart, Hassan Gobjuka "Ethernet Topology for Networks with Incomplete Information" Proceedings of the International Conference on Computer Communication (ICCCN), 2007, Honolulu, Hawaii
133. Hassan Gobjuka, Yuri Breitbart, "Discovering Network Topology of large Multisubnet Ethernet Networks", Proceedings of the 32d Annual IEEE Conference on Local Computer Networks, 2007, Dublin, Ireland.
134. Ruoming Jin, Yuri Breitbart, Chibuke Muoh, "Data Discretization Unification", Proceedings of International Conference on Data Mining, 2007, Omaha NE.
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