

CURRICULUM VITAE

Jack Minker
Professor Department of Computer Science
University of Maryland
and
Institute for Advanced
Computer Studies, (UMIACS)

I. Personal Data

July 4, 1927
Brooklyn, New York

II. Education

BA (cum laude with honors in Mathematics - major, Education - minor), Brooklyn College, New York	1949
MS Mathematics - University of Wisconsin	1950
PhD Mathematics - University of Pennsylvania	1959

III. Experience in Higher Education

University of Wisconsin, Graduate Teaching Assistant	1949-1950
National Institute of Health, Graduate School	1965-1966
University of Maryland, Visiting Member	1967-1968
University of Maryland, Associate Professor	1968-1971
University of Maryland, Professor Computer Science	1971-
University of Maryland, Chairman, Department of Computer Science	1974-1979
University of Maryland - Institute for Advanced Computer Studies	1986 -
University of Maryland, Professor Emeritus, Computer Science and UMIACS (UMIACS), Professor, Permanent Member	1998-

IV. Experience other than in Higher Education

Instructor of Math, Erasmus Hall High School, Brooklyn, N.Y.	1950-1951
Engineer, Bell Aircraft Corp., Buffalo, N.Y.	1951-1952
Manager, Information Technology Section, Radio Corporation of America, Bethesda, MD	1952-1963
Director of Technical Staff, Auerbach Corp., Washington, D.C.	1963-1967
Technical Consultant, Auerbach Corp., Washington, D.C.	1967-1972

V. AWARDS RECEIVED:

1. Association for Computing Machinery, **Outstanding Contribution Award** for 1985 for work on Human Rights - 1985.
2. Association for Computing Machinery, **Recognition of Service Award In Appreciation for the Contribution to the ACM**, Associate Editor, Editorial Advisor Computing Reviews, 1981-present - Oct. 1987
3. American Association for the Advancement of Science, **Elected to the rank of Fellow of the AAAS**, “for research in database systems and artificial intelligence, and for activities as an educator and an outspoken defender of human rights” - January 1989.
4. Association for Computing Machinery, **Recognition of Service** In appreciation for his contribution to the Association For Computing Machinery *Vice-Chair/Scientific Freedom and Human Rights Committee* 1980-1989 - September 1989.
5. American Association for Artificial Intelligence, **Elected Founding Fellow** - 1990.
6. Institute for Electronics and Electrical Engineering, **Elected to the rank of Fellow** “For contributions to deductive databases, disjunctive logic programming, and artificial intelligence.” - 1991.
7. Association for Computing Machinery , **Elected Founding Fellow** - 1993. (Among the first 120 elected as a Fellow)
8. Festschrift in honor of Jack Minker, **Annals of Mathematics and Artificial Intelligence**, Vol. 14, No. 2-4, Ed.-in-Chief: M. C. Golumbic, Eds: J. Lobo and A. Rajasekar, Baltzer Science Publishers, September 1995. (A publication in honor of Jack Minker’s continuing distinguished contribution to the field of deductive databases and artificial intelligence)
9. University of Maryland President’s Medal for 1996 - recognizing a member of the College Park community who has made extraordinary contributions to the social, intellectual, and cultural life of the campus.
10. Distinguished Scholar-Teacher, University of Maryland, 1997-98.
11. Founding Editor-in-Chief, *Theory and Practice of Logic Programming*, 2000-2001.
12. Founding Editor-in-Chief Emeritus, *Theory and Practice of Logic Programming*, 2001–.
13. Founding Fellow of the University of Maryland Academy for Excellence in Teaching and Learning, May 2002.
14. Trustee, Congregation Beth El of Montgomery County, 2003-2005.

VI. Publications

a. Books

1. Minker, J., "Some Applications of Orthogonal System of Functions to Interpolation and Analytic Continuation," **Ph.D Thesis**, Department of Mathematics, University of Pennsylvania, January 1959.
2. Minker, J. and Rosenfeld, S. (Eds.), **Proceedings of ACM Symposium on Information Storage and Retrieval**, Association for Computing Machinery, New York, New York, April 1971.
3. Gallaire, H. and Minker, J. (Eds.), **Logic and Data Bases**, Plenum Press, New York, 1978.
4. Gallaire, H., Minker, J. and Nicolas, J.-M. (Eds.), **Advances in Database Theory**, Vol. 1, Plenum Publishing Co., New York, 1981.
5. Gallaire, H., Minker, J. and Nicolas, J.-M. (Eds.), **Advances in Database Theory**, Vol. 2, Plenum Publishing Co., New York, 1984.
6. Minker, J. (Ed.) **Foundations of Deductive Databases and Logic Programming**, Morgan Kaufmann Publishers, Los Altos, CA., 1988.
7. Lobo, J., Minker, J. and Rajasekar, A., **Foundations of Disjunctive Logic Programming**, MIT Press, March 1992.
8. Minker, J. (Coordinator & Editor - English Translation) and Soyfer, V. Ed., **Aleksandr Yakovlevich Lerner, September 7, 1913 - , A Tribute On His 70th Birthday**, *Journal of the Academic Proceedings of Soviet Jewry*, Volume 2, Number 1 (April 1988), Henry Stewart Publications.
9. Minker, J. (Ed.) "Preprints, Workshop on Logic-Based Artificial Intelligence," University of Maryland, College Park, Maryland, June 1999
10. Minker, J. (Ed.) *Logic-Based Artificial Intelligence*, Kluwer Academic Publishers, 2000.

b. Book Chapters

1. Minker, J. and Sable J., "File Organization and Data Management," In: **Annual Review of Information Science and Technology**, Vol.2, 1967 Interscience Publishers, John Wiley and Sons, New York, 123-160.
2. Minker, J. and Dugan, J.A., "Automatic Data Processing, Library and Information Center Application," In: **Encyclopedia of Library and Information Science**, 1969, (also Auerbach Corporation, Report Pr 7500-236) 1967.
3. Minker, J., "Associative Memories and Processors : A Description and Appraisal," In: **Encyclopedia of Computer Science and Technology**, Vol. 2, (J. Belzer et al. (eds.)) Marcel Dekker, 1975, 283-324.

4. McSkimin, J.R. and Minker, J., "Predicate Calculus Based Semantic Network for Deductive Searching," In: **Associative Networks - The Representation and Use of Knowledge in Computers**, (N. Findler, Ed.), 1979, 205-238.
5. Minker, J., "An Experimental Relational Data Base System Based on Logic," In: **Logic and Data Bases**, H. Gallaire and J. Minker (Eds.), Plenum Press, New York, April 1978, 107-147.
6. Gallaire, H., Minker, J., and Nicolas, J.-M., "An Overview and Introduction to Logic and Data Bases," In: **Logic and Data Bases**, (H. Gallaire, and J. Minker (Eds.)), Plenum Press, New York, 1978, 3-30.
7. Minker, J., and Powell, P., "Answer and Reason Extraction, Natural Language and Voice Output for Deductive Relational Data Bases," In: **Natural Language Based Computer Systems**, (L. øœœœœœœœœœ, Ed.), Carl Hanser Verlag, Munchen, 1980, 9-56.
8. Grant, J. and Minker, J., "Optimization in Deductive and Conventional Relational Data Base Systems," In: **Advances in Data Base Theory**, Volume 1, (H. Gallaire, J. Minker and J.M. Nicolas (Eds.)) Plenum Publishing Co., New York 1981, 195-234.
9. Minker, J., Gallaire, H. and Nicolas, J.-M., "Background for Advances in Data Base Theory," **Advances in Data Base Theory**, Volume 1, (H. Gallaire, J. Minker, and J.M. Nicolas, Eds.), Plenum Publishing Co., New York, 1981, 3-21.
10. Minker, J., "Logical Inference as an Aid to Analysis in Large Data Bases," In: **Computer Assisted Analysis and Model Simplification**, (H.J. Greenberg and J.H. Maybee, (Eds.)), Academic Press, New York, 405-430.
11. Minker, J. and Grant, J., "Answering Queries in Indefinite Databases and the Null Value Problem," In: **Advances in Computing Research The Theory of Databases**, (Ed. P. Kanelakis), 1986, 247-267.
12. Chakravarthy, U.S., Grant, J. and Minker, J., "Foundations of Semantic Query Optimization for Deductive Databases," In: **Foundations of Deductive Databases and Logic Programming** (J. Minker, Ed.) Morgan Kaufmann Publishers, Los Altos, CA, 1988, 243-273, (also, earlier version. In: *Proceedings of the Workshop on Foundations of Deductive Databases and Logic Programming*, (J. Minker, Ed.), August 1986, 67-101.
13. Minker, J., "Foreword," In: **Mechanical Theorem Proving in The Leningrad School**, V. Lifschitz, Monograph Series on the Soviet Union, Sponsored by Delphic Associates, 1986.
14. Gal, A. and Minker, J., "Informative and Cooperative Answers in Databases Using Integrity Constraints," In: **Natural Language Understanding & Logic Programming**. (Dahl, V. and St. Dizier, P., Eds.) North Holland Publications, 1988, 277-300. Also, CS-TR-1911/UMIACS-TR-87-43, September 1987.
15. Gal, A. and Minker, J., "Producing Cooperative Answer in Deductive Databases," In: **Logic and Logic Grammer for Language Processing** (St. Dizier P. and Szpakowicz S. Eds.) L.S. Harvard Ltd. 1990, 223-254.
16. Lobo, J., Minker, J. and Rajasekar, A., "Theory of Disjunctive Logic Programming," **Computational Logic: Essays in Honor of J. Alan Robinson**, (Edited by Jean-Louis Lassez), MIT Press, 612-639, 1991.

17. Lobo, J., Minker, J. and Rajasekar, A., "On General Disjunctive Logic Programs," *Intelligent Systems* (Editors Z.W. Ras and M. Zemankova), Ellis Horwood Ltd., 170-199, 1991.
18. Lobo, J., Minker, J. and Rajasekar, A., "Circumscription and Disjunctive Logic Programming," Invited paper in Honor of John McCarthy's birthday **Artificial Intelligence and Mathematical Theory of Computation** Festschrift, Academic Press, 281-304, Sept. 1991.
19. Lobo, J., Minker, J. and Rajasekar, A., "Semantics of Disjunctive and Normal Disjunctive Logic Programs," **Handbook of Logic in Artificial Intelligence & Logic Programming Volume 5**, 1996.
20. Minker, J. "Logic and Databases: a 20 Year Retrospective - Updated in Honor of Ray Reiter," In: H.J Levesque and F. Pirri (Eds.), **Logical Foundations for Cognitive Agents, Contributions in Honor of Ray Reiter**, Springer, 1999, 234-299.
21. Minker, J., "Introduction to Logic-Based Artificial Intelligence", In: Minker, J. (Ed.), *Logic-Based Artificial Intelligence*, pp. 3-33, Kluwer Academic Publishers, 2000.

b. Journal Articles

1. Brotman, L. and Minker, J., "Digital Simulation of Complex Traffic Problems in Communications Systems," *Operations Research*, Vol. 5, No. 5, Oct. 1957, 670-679.
2. Epstein, B., Greenstein D.S. and Minker, J., "An Extremal Problem With Infinitely Many Interpolation Conditions," *Annals of Finnish Academy of Science (Soumalainen Tiedakatemia Tomituksia)*, Series A:1 Mathematics 250/10, 1958.
3. Epstein, B. and Minker, J., "Extremal Interpolatory Problems in the Unit Disc," *Proceedings American Mathematical Society*, Vol. 11, No. 5, Oct. 1960, 77-84.
4. Gurk, H. and Minker, J., "The Design and Simulation of an Information Processing System," *Journal of the ACM*, Vol. 8, No. 2, April 1961, 260-270.
5. Minker, J. and Gurk, H., "Storage Requirements for Information Handling Centers," *Journal of the ACM*, Vol. 17, No. 1, January 1970, 65-77.
6. Augustson, J.G. and Minker, J., "An Analysis of Some Graph Theoretical Cluster Techniques," *Journal of the ACM*, Vol. 17, No. 4, October 1970, 571-588.
7. Augustson, J.G. and Minker, J., "Deriving Term Relations from a Corpus by Graph Theoretical Techniques," *Journal of the American Society for Information Science*, Vol 21, No. 2, March-April 1970, 101-111.
8. Minker, J., "An Overview of Associative or Content-Addressable Memory Systems and a KWIC Index to the Literature," *Computing Reviews*, Vol. 12, No. 10, 453-490 October 1971.
9. Minker, J., Wilson, G. and Zimmerman, B., "An Evaluation of Query Expansion by the Addition of Clustered Terms for a Document Retrieval System," *Information Storage and Retrieval: Theory and Practice*, Vol. 8, No. 6, December 1972.

10. Minker, J., Fishman, D. and McSkimin, J., "The Q* Algorithm - A Search Strategy for a Deductive Question-Answering System," *Journal of Artificial Intelligence*, 4, 1973, 225-243. (Also in *Proceedings of the 3rd International Joint Conference on Artificial Intelligence*, 20-23 Aug. 1973, 31-40).
11. Minker, J., Peltola, E. and Wilson, G., "Document Retrieval Experiments Using Cluster Analysis," *Journal of the American Society for Information Sciences*, Vol. 24, July-Aug. 1973, 246-260.
12. Minker, J. and VanderBrug, G., "Representations of the Language Recognition Problem for a Theorem Prover," *Journal of Computers and Information Science*, Vol. 3, No. 3, 1974.
13. Minker, J., Fishman, D. and McSkimin, J., "MRPPS - An Interactive Refutation Proof Procedure System for Question-Answering," *International Journal of Computers and Information Science*, Vol.3, No.2, 1974, 105-122.
14. Minker, J. and VanderBrug, G., "The Early Algorithm as a Problem Representation," *Information Processing Letters*, Vol.3, No.1, July 1974, 1-21.
15. Minker, J. and VanderBrug, G.J., "State-Space, Problem-Reduction, and Theorem Proving-Some Relationships," *Communications of ACM*, Vol.18, No.2, Feb. 1975, 107-122.
16. Fishman, D., and Minker, J., " π -Representation : A Clause Representation for Parallel Search," *Artificial Intelligence* 6, 1975, 103-127.
17. Minker, J. and Wilson, G.A., "Resolution, Refinements and Search Strategies—A Comparative Study," *IEEE Transactions on Computers*, C-25, No.8 (August 1976), 782-800.
18. Minker, J., "Information Storage and Retrieval—A Survey and Functional Description," (invited paper), *Egyptian Journal of Computing*, June 1976.
19. Minker, J. and Wilson, G.A., "A Note on Answer Extraction in Resolution Based Systems," *International Journal of Computer and Information Sciences*, Vol. 6, No. 3, 1977, 179-192. (Also University of Maryland Computer Science Technical Report TR-447, March 1975).
20. Minker, J., "Binary Relations, Matrices and Inference Developments," *Information Systems*, Vol. 3, 1978, 37-47.
21. Minker, J., "Search Strategy and Selection Function for an Inferential Relational System," *Transactions on Data Base Systems*, Vol. 3, No. 1, March 1978, 1-31.
22. Minker J. and Minker, R., "Optimization of Boolean Expressions - Historical Developments," *Annals of the History of Computing*, Vol. 2, No. 3, July 1980, 227-238.
23. Aronson, A., Jacobs, B. and Minker, J., "A Note on Fuzzy Deduction," *Journal of the ACM*, Vol. 27, No. 4, October 1980, 599-603.
24. Minker, J. and Zanon, G., "An Extension to Linear Resolution with Selection Function," *Information Processing Letters*, 14, 3 (13 June 1982), 191-194.
25. Minker, J. and Nicolas, J.-M., "On Recursive Axioms in Deductive Databases," *Information Systems*, Vol. 8, No. 1 (1983), 1-13.

26. Chakravarthy, U.S. and Minker, J., "Processing Multiple Queries in Database Systems," *Database Engineering*, Vol 5, No. 3. (September 1982), 38-43.
27. Grant, J. and Minker, J., "On Optimizing the Evaluation of a Set of Expressions," *International Journal of Computer and Information Sciences*, Vol. 11, (1982), 179-191.
28. Minker, J., "On Deductive Relational Databases," *Fifth International Conference on Collective Phenomena, Annals of the New York Academy of Sciences*, Volume 410, 1983, 181-200.
29. Blum, J. Kirby, R.L. and Minker, J., "Eloge: Walter W. Jacobs, 1914-1982," *Annals of the History of Computing*, Vol. 6, No. 2 April 1984, pp. 100 - 105.
30. Gallaire, H., Minker, J. and Nicolas, J.-M, "Logic and Databases: A Deductive Approach," *Computing Surveys*, (with H. Gallaire and J. -M. Nicolas). Vol. 16, No.2, June 1984, 153-185.
31. Grant, J. and Minker, J., "Inferences for Numerical Dependencies," *Theoretical Computer Science* 41, North-Holland, 1985, 271-287.
32. Grant, J. and Minker, J., "Normalization and Axiomatizations for Numerical Dependencies," *Information and Control*, Vol. 65, No. 1, 1-17, April 1985
33. Minker, J. and Perlis, D., "Computing Protected Circumscription," *Journal of Logic Programming*, Vol. 2, No. 4, Dec. 1985, 235-249.
34. Minker, J. and Perlis, D., "Completeness Results for Circumscription," *Artificial Intelligence*, Vol. 28, No.1, 1986, 29-42.
35. Giuliano, M.E., Kohli, M. and Minker, J., "An Overview of the PRISM Project," *Computer Architecture News*, Vol. 15, No. 1, March 1987.
36. Minker, J., "Perspectives in Deductive Databases," (invited paper), *Journal of Logic Programming*, (also invited lecture, *Principles of Database Systems*, March 1987) vol. 5, 1988, 33-60
37. Minker, J. and Rajasekar, A., "A Fixpoint Semantics for Disjunctive Logic Programming," *Journal of Logic Programming*, Vol. 9, No. 1, North-Holland Pub., July 1990, 45-74.
38. Chakravarthy, U.S., Grant, J. and Minker, J., "Logic Based Approach to Semantic Query Optimization," *ACM Transactions on Database Systems*, Vol. 15, No. 2, June 1990, 162-207.
39. Lobo, J., Minker, J. and Rajasekar, A., "Weak Generalized Closed World Assumption," *Journal of Automated Reasoning* 5, Kluwer Academic Publishers, Netherlands, 1989, 293-307.
40. Grant, J. and Minker, J., "Deductive Database Theories," In: *The Knowledge Engineering Review*, Vol. 4: 4, 1989, 267-304.
41. Grant, J. and Minker, J., "Integrity Constraints in Knowledge Based Systems," In: *Knowledge Engineering, Vol 1. and 2., 1-25*, H. Adeli (Editor), McGraw-Hill Publishers, 1990, 1-25.
42. Baral, C., Kraus, S. and Minker, J., "Combining Multiple Knowledge Bases," *IEEE Transactions on Knowledge and Data Engineering*, Vol. 3, No. 2, 208-220, June 1991.

43. Minker, J. and Rajasekar, A., "On Stratified Disjunctive Programs," *Annals of Mathematics and Artificial Intelligence*, Vol. 1, No. 1-4, M.C. Golumbic, P.L. Hammer, P. Hansen, T. Ibaraki (Editors) J.C. Baltzer AG Scientific Publishing Company, Basel-Switzerland, Sept. 1990, 339-357.
44. Durand, I., Giuliano, M., Kohli, M. and Minker, J., "PRISM: A Testbed for Parallel Control," In: *Parallel Algorithms for Machine Intelligence and Vision* (Editors V. Kumar, P.S. Gopalakrishnan and L. N. Kanal) Springer-Verlag 1990), 182-231.
45. Lobo, J. Minker, J. and Rajasekar, A. "Circumscription and Disjunctive Logic Programming," *Artificial Intelligence and Mathematical Theory of Computation Papers in Honor of John McCarthy* edited by Vladimir Lifschitz, Academic Press, 281-304, September 1991.
46. Baral, C., Lobo, J. and Minker, J., "Generalized Disjunctive Well-founded Semantics for Logic Programs," *Annals of Math and Artificial Intelligence* Vol. 5, No. 2-4, 89-131, May 1992.
47. Grant, J. and Minker, J., "Deductive Database Systems," *Encyclopedia of Artificial Intelligence* (Editor, S. Shapiro), Second edition, Volume 1, 320-329, 1992.
48. Minker, J. 'Deductive Databases.'" *Encyclopedia of Computer Science*, 424-425, 1993.
49. Grant, J. and Minker, J., "The Impact of Logic Programming on Databases," *Communication of the Association for Computing Machinery* Vol. 35, No. 3., 66-81, March 1992.
50. Baral, C. Kraus, S., Minker, J. and Subrahmanian, V.S., "Combining Knowledge Bases Consisting of first Order Theories", *Computational Intelligence*, Vol. 8, No. 1, 45-71, 1992.
51. Gaasterland, T., Giuliano, M., Litcher, A., Liu, Y., Minker, J. "Using Integrity Constraints to Control Search in Knowledge Base Systems", *International Journal of Expert Systems* Vol. 6, No. 4, 447-487, 1993.
52. Gaasterland, T. Godfrey, P. and Minker, J. "An Overview of Cooperative Answering," *Journal of Intelligent Information Systems*, 1, 123-157, 1992. Also appears in: *Nonstandard Queries and Nonstandard Answers*, (Edited by: R. Demolombe and T. Imielinski), Oxford University Publications, 1-40, 1994.
53. Fernández, J., Lobo, J., and Minker, J. and Subrahmanian, V.S. "Disjunctive LP + Integrity Constraints = Stable Model Semantics," *Journal of Mathematics and Artificial Intelligence*, Vol. 8, Nos. 3 and 4, 449-474, 1993.
54. Minker, J. "Overview of Disjunctive Logic Programming," *Journal of Artificial Intelligence & Mathematics*, Vol. 12 (1994) Nos. 1,2, 1-24, December 1994.
55. Gaasterland, T., Godfrey, P. and Minker, J. "Relaxation as a Platform for Cooperative Answering," *Journal of Intelligent Information Systems*, Vol. 1, No: 3/4, 293-321, Dec. 1992.
56. Minker, J. "An Overview of Nonmonotonic Reasoning and Logic Programming," *Journal of Logic Programming*, Vol. 17, No. 2, 3, & 4, 95-126, Nov. 1993.
57. Fernández, J.A. and Minker, J. "Theory and Algorithms for Disjunctive Deductive Databases." *Programirovanie*, N 3, 5-39, May-June, 1993 (Russian Invited Paper).

58. Grant, J., Horty, J., Lobo, J. and Minker, J. "View Updates in Stratified Disjunctive Databases," *Journal of Automated Reasoning*, Kluwer Aca. Pub., Vol 11, 249-267, 1993.
59. Gaasterland, T., Guiliano, M., Litcher, A., Liu, Y. and Minker, J. "Using Integrity Constraints to Control Search in Knowledge Base Systems," *International Journal of Expert Systems*, JAI Press Inc., Vol 6, No. 4, 447-487, 1993.
60. Fernández, J. A., Minker, J. and Yahya, A. "Computing Perfect and Stable Models Using Ordered Model Trees," *Journal of Computational Intelligence*, 1994.
61. Fernández, J. A., Minker, J. and Yahya, A. "Ordered Model Trees: A Normal Form for Disjunctive Deductive Databases," *Journal of Automated Reasoning*, Vol. 13, No. 1, 117-143, August, 1994.
62. Minker, J. Yahya, A., "Representations for Disjunctive Deductive Databases," *The Journal of Intelligent Information Systems*, 1994.
63. Minker, J. and Yahya A. "Query Evaluation in Partitioned Disjunctive Deductive Databases", 1994.
64. Minker, J. and Ruiz, C. "Semantics for Disjunctive Logic Programs with Explicit and Default Negation," *Fundamenta Informaticae*, Vol. 20, No 3/4, (Anniversary Issue Edited by H. Rasiowa), 1994.
65. Baral, C., Kraus, S., Minker, J. and V.S. Subrahmanian "Combining Default Logic Databases" *Journal of International Information Systems*, Vol. 3, No. 3, 319-384, 1994.
66. Fernández, J. Minker, J. "Bottom-up Computation of Perfect Models for Disjunctive Theories" *The Journal of Logic Programming*, Vol. 25, No. 1, 33-51, October, 1995.
67. Pradhan, S., Minker, J. and Subrahmanian, V.S. "Combining Databases with Prioritized Information", *Journal of Intelligent Information Systems*, Vol. 4, No. 3, 231-260, May 1995.
68. Fernandez, J. A. Minker, J. and Yahya A. "Computing Perfect and Stable Models Using Ordered Model Trees." *Journal of Computational Intelligence*, Vol. II, No. 1, 89-112, Feb. 1995.
69. Fernández, J.A., Grant, J. and Minker, J. "Model Theoretic Approach to View Updates in Deductive Databases," *Journal of Automated Reasoning*, Vol. 17, No. 2, 171-197, 1996.
70. Lobo, J., Minker, J. and Rajasekar, A. "Semantics of Disjunctive and Normal Logic Programs", *Handbook of Logic in Artificial Intelligence & Mathematics*, Volume 5, 1997.
71. Pradhan, S. and Minker, J. "Combining Datalog Databases Using Priorities", *Int'l. Journal of Intelligent & Cooperative Information Systems (IJICIS)*, eds. M.P. Papazoglou & T. K. Sellis. 1996.
72. D. Seipel, J. Minker, C. Ruiz "Model Generation and State Generation for Disjunctive Logic Programs," *Journal of Logic Programming*, Vol. 32, No. 1, 49-69, July 1997.
73. Minker, J. "Deductive Databases: Past, Present and Future", *AI Magazine*, Vol. 18, No. 3, 21-47, Fall 1997.
74. Minker, J. "Deductive Databases," *Encyclopedia of Electrical Engineering*, To appear, 1997.

75. Minker, J. and Pradhan, S. "Using Priorities to Combine Knowledge Bases", *International Journal of Cooperative Information Systems*, Vol. 5, Nos. 2 & 3, 333-364, Jan. 1997.
76. Godfrey, J. Grant, J. Gryz, and Minker, J. "Integrity Constraints: Semantics and Applications", In *Logic in Information Systems*, eds. G. Saake & Chomicki, J., The Kluwer International Series in Engineering and Computer Science, 436, Chapter 9, pages 265-306. Kluwer Academic Publishers, Boston, Mar. 1998.
77. Ruiz, C. and Minker, J. "Logic Knowledge Bases With Two Default Rules", *Journal of Mathematics & Artificial Intelligence*, Vol. 22, Nos. 3,4, 333-361, July 1998.
78. Minker, J., "The Workshop on Logic-Based Artificial Intelligence." *AI Magazine*, v. 20, no. 4, Winter 1999, 97-102.
79. Grant, J., Gryz, J. Minker, J. and Raschid L., "Logic-Based Query Optimization for Object Databases". *IEEE Transaction on Data and Knowledge Engineering*, 12(4), July/August 2000, pages 529-547.
80. Grant, J. and Minker, J., "A Logic-Based Approach to Data Integration," *Theory and Practice of Logic Programming*, Vol 2(3), May 2002, 293-321.
81. Minker, J., "In Memoriam: Raymond Reiter, June 12, 1939 – September 16, 2002, *Theory and Practice of Logic Programming*, Vol. 3, No. 1, January 2003, i. ix, also in: *AI Magazine*, Vol. 24, No. 1, Spring 2003, 13-18.

c. Other Journal Articles:

1. Minker, J., "An Opinion Paper - Science, Shcharansky and the Soviets," *American Society of Information Science (ASIS) Journal*, September 1978, Vol. 29, No. 5, 219-224.
2. Minker, J., "Computer Scientists Whose Scientific Freedom and Human Rights Have Been Violated: A Report of the ACM Committee on Scientific Freedom and Human Rights," (J. Minker, Ed.), *Communications of the ACM*, Vol. 24, Number 3, March 1981, 134-139.
3. Minker, J., "Computer Professionals Whose Scientific Freedom and Human Rights Have Been Violated - 1982: A Report of the ACM Committee on Scientific Freedom and Human Rights," *Communications of the ACM*, 25, 12, December 1982, 888-894.
4. Minker, J., "Trapped in the USSR: Alexander Lerner at Seventy," *ABACUS Magazine*, 1984.
5. Minker, J., "Computer Professionals Whose Scientific Freedom and Human Rights Have Been Violated — 1984," *Communications of the Association for Computing Machinery*, Volume 28, No. 1, January, 1985, 69-78.
6. Minker, J., "Human Rights: Some Perspectives," *SIGMOD RECORD*, Vol. 16, No. 1, 18-27, March 1987.
7. Minker, J., "Scientific Freedom and Human Rights of Computer Professionals - 1989," *Communications of the Association for Computing Machinery*, Volume 32, No. 8, August 1989 957-974.

d. Conference Proceedings

1. Miller, L, Minker, J., Reed, W.G. and Shindle, W.E. "A Multi-Level File Structure for Information Processing," *Proceedings Western Joint Computer Conference*, San Francisco, California, (NJCC No. 17), May 1960, 53-59.
2. Dugan, J.A., Green, R.S. Minker, J. and Shindle, W.E., "A Study of the Utility of Associative Memory Processors," *Proceedings-ACM National Meeting*, 1966, 347-360.
3. Minker, J., "Generalized Data Management Systems - Some Perspectives," *Proceedings of the Seminar - MIS: Information Systems for the Manager*, October 7, 14, 21, and 28, 1970, Research Analysis Corporation, McLean, Virginia, 40-102.
4. Minker, J. and Rosenfeld, S., "Introduction and Perspectives for the 1971 ACM Information Storage and Retrieval Symposium," *Proceedings of the ACM Symposium on Information Storage and Retrieval, Association for Computing Machinery*, New York, New York, April 1971.
5. Minker, J., "Introduction, Proceedings Volume II, Panel Discussion Abstracts," *The Jerusalem Conference on Information Technology*, ILTAM Corporation for Planning and Research, Jerusalem, Israel, August 16-20, 1971, i-iii.
6. Minker, J., "An Overview," *Proceedings - The Jerusalem Conference on Information Technology, ILTAM Corporation for Planning and Research*, Jerusalem, Israel, August 1971, 191.
7. Augustson, G. and Minker, J., "Global Parallel Unification for Large Scale Question-Answering Systems," *Proceedings Workshop on Computer Architecture for Non-Numeric Processing*, Dallas, Texas, October 14-15, 1974.
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92. Fernández, J. A., Minker, J. and Yahya, A., "Ordered Model Trees: A Normal Form for Disjunctive Deductive Databases," UMIACS-TR-93-63, CS-TR-3103, July 1993.
93. Minker, J. and Yahya, A., "Representations for Disjunctive Deductive Databases," UMIACS-TR-93-70, CS-TR-3111, July 1993.

94. Minker J., Pradhan, S. and Subrahmanian, V.S., "Combining Databases with Prioritized Information," UMIACS-TR-93-75, CS-TR-3116, August, 1993.
95. Fernández J. A., Minker J. and Yahya A., "Computing Perfect and Stable Models Using Ordered Model Trees," UMIACS-TR-93-136 and CS-TR-93-3195, December 1993.
96. Minker J. and Ruiz C. "Computing Stable and Partial Stable Models of Extended Disjunctive Logic Programs," *International Conference on Logic Programming '94*, (Lecture Notes in AI) (Eds. J. D. La Moniz Pereira and T.C. Przymusinski), Santa Margherita Ligure, Italy, June 1994 205-229,
97. Fernández J. A., Grant, J. and Minker, J., "Model Theoretic Approach to View Updates in Deductive Databases," CS-TR-3335, UMIACS-TR-94-99, 1994.
98. Grant J., Gryz, J. and Minker, J. "Updating Disjunctive Databases via Model Trees," CS-TR-3407 and UMIACS-TR-95-11, 1995.
99. Minker, J., Ruiz, C. and Seipel D., "Model Generation and State Generation for Disjunctive Logic Programs," CS-TR-3546 and UMIACS-TR-95-99, October 1995.
100. Godfrey, P. Gryz, J. and Minker, J. "Semantic Query Optimization for Bottom-Up Evaluation," CS-TR-3558, UMIACS-TR-95-109, November 1995.
101. Minker, J. "Logic and Databases: a 20 Year Retrospective*" CS-TR-3704, UMIACS-TR-96-74, November 1996.
102. Minker, J., "Historical Developments in Computers to the 1950s," CS-TR-3895, UMIACS-TR-98-25, April 1998.

Other Reports

1. Design of Reliability Central Data Management Subsystem, Final Report, Auerbach Corp., Philadelphia, Pa., July 1965, Vol. 2 (RAD-TR-65-189-Vol. 2) (AD-469 269).
2. Analysis of Small Associative Memories for Data Storage and Retrieval Systems, Vol. 1, Management Report, Vol. II, Technical Discussions, Final Report for Rome Air Development Center, Rome, New York, September 1965, Vol. I, AD 489 660; Vol. II, AD 489 661.
3. An Example of Systems Engineering Tradeoffs, Auerbach Report PR 7500-185, May 1966 (Presentation as an invited lecturer at the American University Institute on Systems Science, May 1966).
4. Transportation Planning System Directory, Auerbach Corp., Technical Report 1429-TR-8, September 1967 (with A. Bryan and W. Shindle).
5. Transportation Planning System Documentation Bibliography (7 Vols.), Auerbach Corp., Technical Report 1429-TR-9, and Defense Documentation Center Report AD 664 994-AD 664 999, November 1967 (with A. Bryan and W. Shindle).

6. Transportation Planning System, Final Report, Auerbach Corp., Technical Report 1429-TR-11, and Defense Documentation Center Report AD 823 765L, December 1967.
7. Notes for CMSC-204 Information Processing, Computer Science Center, University of Maryland, August 1970.
8. Relational Data System Study, Final Report, Auerbach Corporation (with J. Sable), Auerbach Report No. AIER-1776-TR-1, 27 July 1970, also Rome Air Development Center Report RADC-TR-70-180, September 1970.
9. A System for Graph Theoretical Cluster Experiments Incorporating a Document Retrieval System (with G. Wilson and B. Zimmerman), Technical Note, Computer Science Center, University of Maryland, October 1971.
10. "An Interview with Kent Curtis by Jack Minker, November 18, 1987," Unpublished Manuscript available from J. Minker on request.

VIII. Professional Activities and Honors Received

1. Activities

Co-chairman, National ACM Conference on Design, Implementation and Application of IR-Oriented Languages, Princeton, New Jersey	Oct. 20-21, 1961
Reviewer, Computing Reviews	1963-
Reviewer, ACM Communications, National ACM	1964-
Member, Program Committee, National AFIPS, SJCC	1964
Member, National Program Committee, National ACM	1966-1967
Chairman, Program Committee, National ACM Conference	1967
Chairman, National Program Committee, ACM	1968-1970
Member, National Academy of Science-National Research Council, The U.S. National Committee for International Federation of Documentation (FID)	1968-1971
Member, Committee to select officer candidates of SIGIR	1969
Member, National Program Committee, AFIPS	1970-1973
Co-Conference and Co-Program Chairman 1971 Information Storage and Retrieval Conference	1970-1971
Vice-Chairman, 1971, Jerusalem Conference on Information Technology	1970-1971
Reviewer, Journal of the ACM	1970-
Reviewer of proposals submitted to the NSF	1970-

Member of ASIS Advisory Committee for the Annual Review of Information Science and Technology	1971-1975
Advisor to the Encyclopedia of Computer Science and Technology	1971-1975
Representative for Washington D.C. Chapter of the ACM at the University of Maryland	1972-1980
Chairman, Awards Committee, Washington, D.C. ACM Chapter	1972-1976
Consultant in the Engineering Division of the NSF to select Initiation Proposals	1973-1974
Member, Program Committee, 1974, Jerusalem Conference on Information Technology	1973-1974
Session Chairman for October Conference on Programming Languages and Information Retrieval	1973
Member of the Advisory Board of the Information Systems Journal	1973-
Advisor to Scholarly Press, Inc.	1973-1977
Site Representative for SIGART at the University of Maryland	1973-1979
Vice Chairman, for Computing, Committee of Concerned Scientists	1973-
Reviewer for IFIPS Congress	1974
Advisor, ACM Computer Science Conference 1975	1974-1975
Reviewer for Fourth International Joint Conference on Artificial Intelligence, September 3-8, 1974, Tbilisi, Georgia, USSR	1975

Member of National Institutes of Health Technical Merit Review Committee	1974-1976
Member of the ACM Committee of Relations with other Organizations	1974-1981
Program Coordinator for the ACM and National Bureau of Standards (ACM/NBS)	1974-1980
Referee for International Conference on Very Large Data Bases at Boston, MA, September 22-24, 1975	1975
Reviewer for Canadian Journal of Operational Research Information Processing	1975
Member, Search Committee, Library School, University of Maryland	1975
Member, Advisory Board, Information Systems	1975-
Awards Chairman for the Washington D.C. ACM Chapter '76 Conference	1976
Member, Computer Science Board	1976-1979
Member, Editorial Advisory Board, NBS/NSF Software Engineering Handbook	1975-1980
Referee for the 1976 National Computer Conference June 7-10, New York City	1976
Referee for 1977 National Computer Conference June 13-17, Dallas, TX	1977
Member, IFIP Congress 1977 Program Committee August 8-12, Toronto, Canada	1977
Reviewer for Third International Conference on Very Large Data Bases	1977

Vice Chairman, Committee for Scientific Freedom and Human Rights of the Association for Computing Machinery.	1977
Member, Program Committee Jerusalem Conference on Information Technology	1977-1978
Member, Program Committee of Data Base Conference, Jerusalem	1977-1978
Member, NASA Study Group for Machine Intelligence and Robotics	1977-1980
Reviewer for Journal American Society for Information Sciences	1978-
Honorary Member, Board of Directors of the Washington Committee for Soviet Jewry	1978-
Member, ACM Computing Reviews, Review Journal of the ACM Computing Reviews Category Revision Committee	1979-1982
Member, 1980 ACM SIGMOD Program Committee	1979-1980
Member, National Science Foundation Advisory Subcommittee for Computer Science	1979-1982
Chairman, National Science Foundation Advisory Committee for Computer Science	1980-1982
Member, Organizing Committee for the Fourth International Conference on Collective Phenomena, Moscow, USSR	1979-1980
Editorial Advisor, ACM Computing Reviews	1980-
Reviewer for Seventh International Joint Conference on Artificial Intelligence	1981
Member, Organizing Committee for the Fifth International Conference on Collective Phenomena, Moscow, USSR	1980-1981
Member, ACM External Activities Board	1981-1984
Member, Editorial Board, The Journal of Logic Programming	1983-

Chairman of Panel Session at the International Joint Conference on Artificial Intelligence, NonMonotonic Logic, Karlsruhe, Germany, August 1983, With J.Doyle, D. McDermott, J.McCarthy, and R. Reiter, in honor of the 70th Birthday of Dr. Alexander Y. Lerner.	1983
Chairman of the Panel Session at the National Conference of the American Association for Artificial Intelligence, Future Directions in Artificial Intelligence, Washington, D.C. with S. Amarel, N.Nilsson, J. McCarthy, and P. Winston in honor of the 70th birthday of Dr. Alexander Y. Lerner.	1983
Invited Lecturer on Artificial Intelligence at a meeting sponsored by the University of Maryland and Price Waterhouse.	1983
Invited Lecturer at the Federal Computer Conference, “Future Directions in Artificial Intelligence”.	1983
Panel Chairman Workshop in Portugal, “Database Systems”.	1983
Panel Participant Workshop in Portugal, “Future Directions In Logic,” Programming.	1983
Panel Chairman Workshop in Portugal, “Expert Systems”.	1983
Invited Lecturer at Smithsonian Institution, “Historical Developments and Future Directions 1984 in Artificial Intelligence”	1984
Member of Advisory Group on Resources Needed in the MPSE Division, University of Maryland.	1984
Invited Lecturer, Hebrew University, Israel, “PRISM, A Parallel Inference System Based on Problem Solving,” February.	1984
Invited Lecturer, Hebrew University, Israel, “Selective Circumscription,” A Form of Non-Monotonic Logic, February.	1984

Invited Lecturer, Bar Ilan University, Israel, “Logic and Databases,” March.	1984
Invited Lecturer, Weizmann Institute, Israel, “PRISM A Parallel Inference System Based on Logic,” March.	1984
Invited Lecturer, Weizmann Institute, Israel, “Logic and Databases,” March.	1984
Member, Editorial Board of the Encyclopedia of Artificial Intelligence.	1984-1987
Referee, International Conference on Fifth Generation Systems Logic Programming Journal	1984
Member, Editorial Board, Logic Programming Journal	1984
Referee, Journal on Automated Deduction,	1984-
Referee, Information Systems Journal,	1984-
Referee, International Journal on Information and Control,	1984-
Referee, Journal of the ACM,	1984-
Referee, National Science Foundation Proposals	1984-
Member, Editorial Board, Information Systems Journal	1984
Editorial Advisor, Computing Reviews	1984-
Editor-in-Chief, The Theory and Practice of Logic Programming, 1999-2001	
Founding Editor-in-Chief, The Theory and Practice of Logic Programming, 2001-	
Member of the Committee to evaluate the candidates for the position of Associate Director of Computer Science Division of the NSF.	1984
Invited Lecture, “Semantic Query Optimization” Bell Communications Research, August 13-14.	1984
Invited Tutorial, Logic and Artificial Intelligence Very Large Database Conference, Singapore, August 18.	1984
Invited Lecturer, “Semantic Query Optimization” University of Singapore.	1984

Seminar Lectures, "Logic and Artificial Intelligence" Berlin, West Germany.	Oct. 14-18, 1984
Open Public Lecture, University of Maryland, "Artificial Intelligence - An Overview," September 11, 3-5PM.	1984
Invited Lecture, "Human Rights and Computer Scientists" Union of Councils for Soviet Jews, Capital Hilton, Washington, D.C. September 10, 3:30 PM.	1984
Invited Lecture, Brooklyn College, "Artificial Intelligence - An Overview," September 11, 3-5 PM.	1984
Invited Lecture, Washington D.C. Chapter of the ACM Human Rights of Computer Professionals, Rosslyn Holiday Inn, February 8-9 PM.	1985
Lecturer for Colloquium, Department of Computer Science University of Maryland, "Logic and Databases," September 24.	1984
Reviewer, National ACM Conference	1985
Invited Talk, Coord. Sistemas Ciudad Universitaria Apartado, "Logic and Databases," Venezuela, March 20.	1985
Invited Talk, Coord. Sistemas Ciudad Universitaria Apartado, Venezuela, "Semantic Query Optimization" "Using Integrity Constraints," (March 21).	1985
Invited Talk, Coord. Sistemas Ciudad Universitaria, Apartado, "PRISM: A Parallel Inference System," (March 22).	1985
Member, Review panel for 1986 NSF CER proposals	1986
Reviewer, United States-Israel Binational Science Foundation	1986
Chair, APT Committee, Dept. of Computer Science	1986-87

Referee, Washington, D.C. Conference	1986
Referee, Logic Programming Conference,	1986
Referee, Logic Programming Journal	1986
Referee, International Symposium on Methodologies for Intelligent Systems.	1986-
Referee, International Conference on Logic Programming	1986
Referee, for Fourth Logic Programming Conference, Australia	May, 1987
Member, Search Committee for the Center of Excellence in Space Data and Information Science.	1987
Member, Chancellor's Scholarship Committee	1987
Member, Washington D.C. Chapter - ACM Awards	1987
Referee, for Information Systems	1987
Member, Graduate Committee for Applied Mathematics	1987-1989
Member, Committee on the Department Industrial Associates Program.	June, 1987
Member, Committee on the Department Advisory Board	1987
Reviewer, Journal of Parallel & Distributed Computing Database Systems Research & Development Center, Florida.	1987
Member, Program Committee - Conference on Expert Systems The Naval Regional Data Automation Center in Washington, D.C.	1987
Invited lecture, Principles of Database Systems Conference "Perspective in Deductive Databases"	1987
Member, Program Committee of ISMIS	1988
Invited lecture, IBM Thomas J. Watson Research Laboratory	1988

Invited lecture, SUNY Stonybrook	1988
Chairman, ACM Doctoral Dissertation Committee	1988
Member Advisory Board, CSEDIS	1988
Member, Program Committee, The Role of Artificial Intelligence in Databases and Information Systems, July 4-8, 1988, Guangzhou, China	1988
Member, Program Committee 2nd and 3rd International Symposium on Methodologies for Intelligent Systems	1988
Member, Advisory Board: IEEE Expert Systems	1988
Member, Editorial Advisor: Computing Reviews	1988
Chairman APT Department of Computer Science	1987-1988
Member, Editorial Board: Information Systems Journal	1988-
Member, Editorial Board: Logic Programming Journal	1988-
Member, Editorial Board: Expert Systems: Research and Applications	1988-
Member, Editorial Board: IEEE Expert Systems	1988-
Member, Editorial Board: International Series in Logic Programming	1988-
Member, Editorial Board: Addison-Wesley Publishing Company The Journal of the Academic Proceedings of Soviet Jewry.	1988-
Referee, International Conference On Fifth Generation Systems	1988-
Referee, Logic Programming Journal	1988
Referee, Journal On Automated Deduction	1988
Referee, Information Systems Journal	1988
Referee, International Journal on Information and Control	1988
Referee, Second and Third International Symposium on Methodologies for Intelligent Systems	1988

Referee, Fifth Generation Computer Systems 1988	1988
Chairman, Committee to select Presidential Young Investigator. - Dept. of Computer Science, University of Maryland.	1988-89
Member, Nominating Committee for reviewing Distinguished Scholar-Teacher.	1988-89
Referee, Program Committee for IJCAI-89	1988-89
Referee, Very Large Data Bases 1990	1989
Chairman, APT Board, Dept. of Computer Science University of Maryland.	1989-1990
Member, Departmental Council, Dept. of Computer Science University of Maryland.	1989-
Invited Lecture, ISMIS	Oct, 1989
Invited Lecture, NACL P	Oct, 1989
Invited Lecture, University of Maryland Baltimore Campus	Oct, 1989
Chairman, UMIACS APT Committee	1989-90
Invited Lecture, Wichita, Kansas	Nov, 1989
Chairman, Steering Committee 1st International Conference on Deductive Object-Oriented Databases, Kyoto, Japan.	Dec, 1989
Member, Search Committee for the Dean of the Office of Graduate Studies and Research, University of Maryland.	Nov, 1989
Member, ACM Distinguished Dissertation Committee	1990
Member, Program Committee 1990 North American Conference on Logic Programming, Austin, Texas.	Oct, 1990
Member, Program Committee of the 5th International Symposium on Methodologies for International Systems (ISMIS'90), Knoxville, Tennessee.	1990
Member, Editorial Board for the Annals of Mathematics and Artificial Intelligence	1990-

Presented a Distinguished Lecture at UCLA, on "Disjunctive Logic Programming."	Nov. 1990
Member, Bar-Ilan Symposium on Foundations of AI (BISFAI), Israel.	1991
Member, Program Committee of 6th International Symposium On Methodologies for Intelligent Systems'91, Charlotte, North Carolina.	1991
Member, Program Committee of the International Conference on Parallel and Distributed Information Systems.	Dec. 1991
Chairman, Steering Committee: 2nd International Conference on Deductive and Object-Oriented Databases. Kyoto, Japan.	Dec, 1991
Member, Program Committee of the New International Conference on Parallel and Distributed Information Systems.	1991
Conference Chairman, Joint International Conference and Symposium on Logic Programming.	1992
Referee, International Conference on Fifth Generation Computer Systems '92, Tokyo, Japan, June 1-5.	1992
Invited Lecture, "Logic, Computation and Nonmonotonic Reasoning", Dept. of Computer Science, University of Maryland	April, 1992
Member, Provost Search Committee	1992-93
Member, Discipline Advisory Committee for Fulbright Scholar awards in Computer Science, Council for International Exchange of scholars.	1993-94
Chairman, Dissertation Awards Committee, Association for Logic Programming	1993-
Chairman Emeritus, Steering Committee: 3rd International Conference on Deductive and Object-Oriented Databases, Arizona.	1993-2000
Member, Program Committee Logic Programming and Automated Reasoning	1993

Member, Program Committee of the 7th International Symposium on Methodologies for Intelligent System,	1993
Member, Graduate Committee for Applied Mathematics University of Maryland	1993-94
Member, Editorial Advisory Board for Information Systems	1993-94
Chair, APT Board, Dept. of Computer Science, University of Maryland	1993-94
Member, Departmental Council, Dept. of Computer Science University of Maryland	1993-94
Member, Graduate Studies, Dept. of Computer Science University of Maryland	1993-94
Member, Editorial Advisory Board for Integrated Computer Aided Engineering	1993-94
Invited talk, University Florida	Nov. 1993
Invited Lecture, George Mason University	Dec. 1993
Member, Editorial Advisory Board for Information System	1994
Member, Program Committee of ISMIS'94 Charlotte, N.C., Oct. 19-22	1994
Invited Lecture, Mitre Corp., Washington, DC "An Architecture for a Cooperative Database System"	July 1994
Member, Program Committee of ISMIS'95, Poland, Oct. 11-14.	1995
Member, Review Committee for the Psychology Department	1995-96
Invited Keynote Lecture, San, Miniato, Italy "Deductive Databases: 20 Year Retrospective" Proceedings of the Workshop on Logic in Databases	July 1996
Member, Steering Committee of UMIACS	1996-97

Chair, APT Board, Dept. of Computer Science	1996-97
Member, Program Committee of ISMIS'97, Charlotte, N.C., Oct. 15-18	1997
Chair, UMIACS, APT Committee	1997-98
Member, Steering Committee of UMIACS	1997-98
Permanent Member, Organizing Committee of the Logic Programming ICLP (Int'l. Conference on Logic Programming)	1997-
Permanent Member, Organizing Committee of the Logic Programming ILPS (Int'l. Logic Programming Symposium)	1997-
Member, Department Council, Dept. of Computer Science	1997-98
Member, Program Committee for the Workshop on Deductive Databases and Logic Programming	1997
Member, KR'98 Program Committee	1997-98
Reviewer, Natural Science and Engineering Research Council of Canada Research Grants Program	1998
Member, Program Committee, BISAFI'99	1998-1999
Member, Program Committee, 5th International Conference on Logic Programming and Nonmonotonic Reasoning - LPNMR'99	1998-1999
Chair, Ad Hoc Committee Association for Logic Programming to Negotiate Price Reduction for the Journal of Logic Programming from Elsevier Press	1999-2000
Member, Program Committee for the Workshop on on Logic Programming and Nonmonotonic Reasoning	1999
Member, Program Committee for the Workshop on Knowledge Representation and Nonmonotonic Reasoning	2000
Member, Program Committee for the Workshop on Knowledge Representation and Nonmonotonic Reasoning	2000
Member, International Advisory Board, 4th Int'l Conference on Flexible Query Answering Systems (FQAS'00), Warsaw	Oct. 2000
Member, International Program Committee, 4th Int'l Conference Flexible Query Answering Systems (FQAS'00), Warsaw	Oct. 2000
Member, Program Committee, Third International Symposium	Feb. 17-20, 2004 on Foundation

2. Listed in:

Who's Who in the East

Who's Who in Computers and Data Processing

Who's Who in Computer Education and Research

Dictionary of International Biography

Who's Who in the United States

Who's Who in World Jewry (Member of Advisory Board)

Who's Who in American Men and Women of Science

Who's Who in America

Who's Who Historical Society

Who's Who in Technology Today

Who's Who In Frontiers of Science and Technology,
2nd Edition, 1985.

3. Honors

Member, Pi Mu Epsilon (Honorary Mathematics Society)	1970-1971
National ACM Lecturer	1970-
Senior Member IEEE	1980
Invited by government of China to present a series of 13-three hour lectures at the Northwest Polytechnic University, Xian, China, On Advances in Databases, Artificial Intelligence, and Logic Programming.	May, June 1982
Invited Lecture, Union of Councils for Soviet Jews, Capital Hilton, Washington, D.C.	Sept. 1984
Open Public Lecture, Artificial Intelligence, University of Maryland	Sept. 1984

4. Consultant

IBM
Auerbach Associates
Boeing Computer Services
NSF
University College, University of Maryland
SUNY Buffalo
Bellcore Corporation
MCC Corporation
University of Minnesota

IX. Theses Directed

1. Master of Science

Name	Date of Degree	Thesis/Non-Thesis	Title of Thesis/Scholarly paper
AUGUSTSON, G.	6/7/69	Thesis	Experiments with Graph Theoretical Clustering Techniques
KOBAYASHI, H.	6/30/69	Non-Thesis	Comparison of Substructures Matching Techniques Within Trees
CROOKE, S.C.	6/6/70	Thesis	An Adaptive Approach to Dynamic Allocation of Buffer Storage
FISHMAN, D.H.	6/6/70	Non-Thesis	The Application of Theorem Proving Techniques to Question-Answering Systems
YEH, J.	6/6/70	Non-Thesis	A Report of Computer Performance Evaluation Techniques
ZIMMERMAN, B.	6/6/70	Non-Thesis	A Method for Applying Clustering Techniques to a Document Retrieval System
SKINNER, V.	6/5/71	Non-Thesis	The Design of an Input/Output Subsystem for Question-Answering Systems
HELLER, R.E.	1/24/72	Non-Thesis	Chemical Structure Storage and Retrieval- a Hash Code Technique
WILSON, G.A.	1/24/72	Non-Thesis	An Evaluation of Query Expansion by the Addition of Clustered Terms for a Document Retrieval System
KYLE, M.C.	6/3/72	Non-Thesis	Techniques for File Addressing
WANN, Z.R.	6/3/72	Non-Thesis	Automatic Translation of Natural Language in First Order Predicate Calculus

BRIGNOLI, F.G.	12/21/72	Non-Thesis	A Simulation Study of the Behavior of Non-Core Based Relation Storage Structures
NARON, S.E.	12/21/72	Non-Thesis	Game Tree Searching
McDERMOTT, R.	12/21/72	Non-Thesis	Stemming Algorithms: A Survey
BENETT, S.	5/19/73	Non-Thesis	Methods for Answer and Reason Extraction in Extraction in Theorem
RAMISTELLA, J.	5/19/73	Non-Thesis	A Survey of Selected Selected Interactive Document Retrieval Systems
PETERSEN, K.	8/23/73	Non-Thesis	A Survey of Question-Answering Systems
WELCH, N.	12/20/74	Non-Thesis	DMS- Performance Evaluation Techniques
THOMPSON, H.	8/31/75	Non-Thesis	Curriculum Development and Training for Inner-City Students in Data Processing
ROBERTS, D.	8/31/75	Thesis	Development of a Stem Analysis Algorithm for English Words
REHERT, M.A.	5/15/76	Non-Thesis	A Bookkeeping Strategy for Strategy for Implementing the Arbitrary Selection Function in MRPPS 3.0
ROSSMASSLER, J.	5/15/76	Non-Thesis	A Comparative Study of First-Order Predicate Calculus Techniques and Extended-TT Techniques

KLEIN, M.	8/15/76	Non-Thesis	Translating-Clauses Into English
POWELL, P.	5/14/77	Thesis	Answer/Reason Extraction in Parallel Relational Database System
CHAKRAVARTHY, U.S.	8/15/81	Non-Thesis	A Discussion of Database Consistency Models
HOPKINS, E.	8/81	Thesis	Best Generalizations of Conjunctions of Literals
ASPER, C.	5/82	Thesis	The Development of an Extensional Database on Parallel Processor
CONROY, J.	5/83	Non-Thesis	Symbolic Integration
KASIF, S.	5/83	Non-Thesis	A Note On Translating Flowchart and Recursive Schemas to Prolog schemas
WANG, D.W.	8/83	Thesis	The Intentional Database of PRISM: A Parallel Problem Solving System
BRADLEY, WM. P.	8/84	Thesis	Implementation of a Constraint Machine for PRISM: A Parallel Problem Solver
PIAZZA, R.	9/84	Non-Thesis	The Design and Implementation of the PRISM C
CHANG, S.	6/86	Non-Thesis	Logic Programming for for Expert System
KUO, C.	6/87	Non-Thesis	Symbolic Integration by PROLOG

SUBRAMANIAN, K.	12/86	Thesis	GURU: A Parallel Default Reasoning System
BROWNE, R.	12/87	Thesis	Ground Term rewriting in Semantic Tableau System for First Order Logic with Equality
BRENNER, J.	88	Non-Thesis	
CHOWDHURI, Roy	88	Non-Thesis	Designing an Expert System System Shell with Bidirectional Search Capabilities
GAASTERLAND, T.	88	Non-Thesis	
KATYAL, M.	88	Non-Thesis	Prolog and Natural Language Processing
BARAL, C.	90	Non-Thesis	Relation Between Supported Models and Stable Models of a Normal Logic Program
KARL, Lewis	90	Non-Thesis	A Prolog Meta-Interpreter Implementing SLI-Resolution
HANFORD, Tonia	94	Non-Thesis	A Bank Information System

2. Doctor of Philosophy

Name	Date of Degree	Title of Thesis
FISHMAN, Daniel	12/22/73	Experiments with a Resolution-Based Deductive Question-Answering System and a Proposed Clause Representation for Parallel Search
WILSON, Gerald	5/76	A Description and Analysis of the PAR Technique - An Approach to Parallel Inference and Parallel Search in Problem Solving Systems
McSKIMIN, James	5/76	Techniques for Employing Semantic Information in Question-Answering System
KASIF, Simon	12/84	Analysis of Parallelism in Logic Programs
CHAKRAVARTHY, U.Sharma	3/85	Semantic Query Optimization in Deductive Databases
KOHLI, Madhur	12/87	Controlling the Execution of Logic Programs
SHERLEKAR, Deepak	12/87	Graph Dissection Techniques for VLSI and Algorithms
GAL, Annie (from Uni. of Rennes, France)	88	Cooperative Responses in Deductive Databases
RAJASEKAR, Arcot	89	Semantics of Disjunctive Logic Programs
LOBO, Jorge	90	Semantics for Normal Disjunctive Logic Programs

GIULIANO, Mark	90	The Control and Execution of Parallel Logic Programs
BARAL, Chitta	91	Issues in Knowledge Representation: Semantics and Knowledge Combination
GAASTERLAND Theresa	92	Generating Cooperative Answers in Deductive Databases
LIN, Zheng	92	A Distributed Fair Polling Scheme Applied to Or-Parallel Logic Programming
FERNANDEZ, Jose Alberto	94	Disjunctive Deductive Databases
RUIZ, Carolina	96	Semantics of Knowledge Based Systems with Multiple Forms of Negation
GRYZ, Jaroslaw	97	Syntactic and Semantic Optimization of Database Queries
GODFREY, Parke	98	An Architecture and Implementation For a Cooperative Database System
PRADHAN, Shekar.	01	Reasoning with Conflicting Information in Artificial Intelligence and Database Theory

X. Grants and Contracts

1. National Aeronautics and Space Administration (NASA)
"Evaluation of Computer Systems," June 1969 - June 1973.
2. National Bureau of Standards (NBS), "Research in
Information Storage and Retrieval," June 1970 - June 1973.
3. NASA, "Problem Solving Systems and Mechanical Theorem
Proving, June 1969 - September 1982.
4. National Science Foundation (NSF), "Applications of
Logic and Theorem Proving to Databases," November 1971 - July 1983.
5. NBS, "Evaluation of Computer Systems," July 1975 - July 1976.

6. Air Force Office of Scientific Research (AFOSR), "Parallel Logic Programming," June 1982- .
7. National Science Foundation (NSF), "Logic and Databases," September, 1983 - August 1986.
8. Air Force Office of Scientific Research (AFOSR),
"Parallel Logic Programming," September 1983 - August 31, 1984, 185,000.00
9. National Science Foundation (NSF),
"Logic and Databases," September, 1983 - August 1986, \$299,895.00
10. Army Research Office (ARO) , (with D. Perlis)
"NonMonotonic Reasoning, Belief Systems, and Parallelism," July 1, 1985 (3 years)
\$350,000.
11. Air Force Office of Scientific Research (AFOSR),
"Parallel Logic Programming," (with M. Weiser), September 1983 - October 15, 1984, \$185,000.
12. Air Force Office of Scientific Research (AFOSR),
October 1984 - September 1985, \$200,000, (with M. Weiser)
13. National Science Foundation, "Research in Database
"Foundation and Logic Programming at an Undergraduate Institute," with J. Grant, at
Towson State University, January 1985 - January 1988, \$299,895.00
14. National Science Foundation (NSF), "Logic and Databases,"
September, 1983 - August 1986, \$299,895.00
15. Air Force Office of Scientific Research (AFOSR),
"Parallel Logic Programming," September 1986 - August 31, 1987, \$141,990.00,
16. Army Research Office (ARO)
"Non Monotonic Reasoning, Belief Systems, and Parallelism" July 1, 1986 - June 30,
1987, \$110,600.00 (with D. Perlis).

17. National Science Foundation,
 “Workshop on Foundations of Deductive Databases and Logic Programming,” April 1986
 - March, 1987, \$25,290.00.

18. National Science Foundation,
 “Logic and Databases,” February, 1987 - June 1988, \$109,450.00

19. Air Force Office of Scientific Research (AFOSR),
 Parallel Logic Programming,” September 1987 - August 31, 1988, \$185,000.

20. National Science Foundation,
 “AI, Parallel Logic Programming & Deductive Databases,” September 1987 - June 1990,
 \$349,840.00.

21. Army Research Office (ARO),
 “Distributed Belief Systems,” July 1, 1988 - June 30, 1991, (with D. Perlis), \$ 286,444.00.

22. Towson State University,
 “Deductive Databases Foundations and Logic Programming,” January, 1988 - December
 31, 1990, (with J. Grant), \$16,348.00.

23. Towson State University,
 “Knowledge and Database Systems,” August 1990 - July 1991, (with J. Grant), \$ 16,510.

24. National Science Foundation (NSF)
 “AI, Parallel Logic Programming & Deductive Databases,” July, 1990 - June 1993, (with),
 \$279,366.00

25. Towson State University,
 “Deductive Databases Foundations and Logic Programming,” January, 1991 - December 31,
 1993, (with J. Grant), \$16,348.00

26. Air-Force Office for Scientific Research
 “Deductive Database and Knowledge Base Systems,” Nov. 1, 1991 - Oct. 31, 1994, \$426,999.00

27. National Science Foundation
 “ Logic Programming and Deductive Databases,” Aug. 1, 1993 - Jan. 31, 1995, \$544,731.00

- National Science Foundation (NSF), “ Workshop on Logic-Based Artificial Intelligence,”
 January, 1999 - December 31, 1999, \$ 25,000.00

XI. University Services Other Than Teaching

Computer Science Services

Member of virtually every committee within the Computer Science Center and the Department of Computer Science over the past several years including :

Library Committee (Chairman)	1967
Seminar Committee (Chairman)	1967-1969
Executive Committee	1967-1971
Admissions and Financial Awards Committee	1968-1972
Masters Examination Committee	1968-1969
Education Committee (Chairman)	1969,1973,1974
Student Faculty Relations Committee (Chairman)	1969-1970
PhD Examination Committee	1970-1972
Information Processing Field Committee Computer Science Comprehensive Examination Review Committee (Chairman)	1971- 1972
Colloquium Committee (Chairman)	1972
Computer Systems Committee	1972-
Callcott Committee for the split between the Center and the Department	1973
Chairman of the Search Committee for Department of Computer Science	1973-1974

PhD Examination Committee (Information Processing Representative)	1973-1974
Departmental Council, Chairman	1974-1979
Ex Officio member, all other Departmental Committees	1974-1979
Chairman, Department of Computer Science	1974-1979
Chairman, Education Committee	1973-1979
Search Committee for Provost of the Division of Mathematical and Physical Sciences and Engineering	1978
Search Committee for Chairman of the Department of Computer Science	1981-1982
Ad Hoc Committee on Review for CMSC 120/120P	1982
Ad Hoc Committee Computer Science Department Financial Status	1982
Elected member to represent the Department of Computer Science on the Division's APT Committee.	1984
Chairman of the Search Committee for the Chairman of the Mathematics Department.	1984
Chairman of the MPSE Division Appointments, Promotion, and Tenure Committee,	1984-1985
Member of the Committee to evaluate the candidates for the position of Associate Director of Computer Science in the Division of the NSF, 1984.	1984
Member, Committee for the Institute of UMIACS	1985

Organizer, "Week of Automath and Automated Reasoning," March 4-8.	1985
Chairman, Department of Computer Science Library Committee.	Fall 1985
Member, APT Committee for UMIACS	1985
Member, IEEE Expert Editorial Board	1985
Member, APT Board Department of Computer Science	1986-1987
Chairman, APT Committee for UMIACS	1993-1994
Member, Department Council	1993-1994
Member, Editorial Advisory Board for Information System	1994
Member, Program Committee of ISMIS'94, Charlotte, N.C., Oct. 19-22,	1994
Member, Program Committee of ISMIS'95 Poland, Oct. 11-14, 1995.	1995
Chairman, APT Committee for UMIACS	1995-97

Other Service

Associate Member of Graduate Council	1968-1970
McKeldin Library Automation Committee	1968-1973
Regular Member of Graduate Council	1970-
Senate APT Committee	1974-1979
Ex Officio Member of the College Park Senate	1974-1979

Committee on Graduate Faculty (Graduate Council)	1974-
Search Committee for Chairperson of College of Library and Information Services	1975-1976
Search Committee for Chairperson of Institute for Physical Science and Technology	1976- 1977
Chancellor's Advisory Committee on Computing (CACC)	1978
Chairman, Technical Advisory Committee of the CACC	1978
Member, Graduate Committee on Applied Mathematics	1979-1981
Member, Carnegie Study on New Directions for the University	1979-1980
Member, Adjunct Committee on Research	1980-
Member, Search Committee for Director of the Computer Science Center	1980
Member of Advisory Group on Resources Needed in the MPSE Division, University of Maryland	1983-1984
Member, Editorial Board, Information Systems Journal	1985-
Member, Editorial Board, Logic Programming Journal	1985-2000
Member, Committee for the Institute of Computer Science.	1985
Vice Chairman, Committee of Concerned Scientists	1985
Chairman, APT Board Department of Computer Science	1986-1987
Member, Chancellors Scholarship Committee	1986-1987
Member, Editorial Board for International Journal of Expert Systems: Research & Applications.	1986-
Member, Search Committee for the Center of Excellence in Space Data and Information Sciences.	1987

Member, Nominating Committee for reviewing Distinguished Scholar-Teachers.	1988-1989
Member, Editorial Board for Annals of Mathematics and Artificial Intelligence, Volumes 1-2.	1990-
Chair, APT Board, Dept. of Computer Science,	1993
Member, College Park Senate	1994
Member, Applied Mathematics Graduate Committee	1994-95
Member, Review Committee for the Psychology Department	1995-1996
Chair, Review Committee for the Dean of the Engineering College, University of Maryland	1998-1999
Chair, Search Committee for the Dean of the Engineering College, University of Maryland	1999-2000
Chair, Review Committee for the Director, Institute for Systems Research, University of Maryland	2000-2001
Member, Committee to Recommend an outstanding candidate for the University of Maryland President's Medal for 2003 and for the Distinguished Service Awards	2003
Chair, Review Committee for the Dean of the Engineering College, University of Maryland	2003-2004

XII. Courses Taught

Course No.	Description	Credit Hours	Semester Taught
CMSC 150	Data and Storage Structures	3	Fall 1968
CMSC 290C	Advanced Topics in Computer Science	3	Fall 1968
CMSC 399	Research	varied	Fall 1968
CMSC 150	Data and Storage Retrieval	3	Spring 1969
CMSC 295	Graduate Seminar in Computer Science	3	Spring 1969
CMSC 399	Research	varied	Spring 1969
CMSC 204	Information Processing	3	Fall 1969
CMSC 255	Information Storage and Retrieval	3	Fall 1969
CMSC 290A	Topics in Information Storage and Retrieval	3	Fall 1969
CMSC 204	Information Processing	3	Spring 1970
CMSC 252	Computational Linguistics	3	Spring 1970
CMSC 290A	Advanced Topics in Information Storage and Retrieval	3	Spring 1970
CMSC 255	Information Storage and Retrieval	3	Fall 1970
CMSC 295B	Advanced Seminar Information Storage and Retrieval	3	Fall 1970
CMSC 290A	Advanced Topics in Computer Science	3	Fall 1970

CMSC 798A	Seminar in Question Answering Systems	3	Spring 1971
CMSC 252	Computational Linguistics	3	Spring 1971
CMSC 799	Graduate Research	varied	Spring 1971
CMSC 838B	Methods in Heuristic Search	3	Fall 1971
CMSC 788A	Graduate Seminar - Topics in Information Retrieval	3	Fall 1971
CMSC 798A	Graduate Seminar - Question Answering Systems	3	Spring 1972
CMSC 838D	Advanced Topics in Information Processing Heuristic Programming	3	Spring 1972
CMSC 899	Graduate Research	varied	Spring 1972
CMSC 720	Information Retrieval	3	Fall 1972
CMSC 838B	Advanced Topics in Information Processing - Question Answering Systems	3	Fall 1972
CMSC 723	Computational Linguistics	3	Spring 1973
CMSC 838D	Advanced Topics in Information Processing - Question Answering Systems	3	Spring 1973
CMSC 420	Data and Storage Structures	3	Fall 1973
CMSC 838B	Advanced Topics in Information Processing - Question Answering Systems	3	Fall 1973
CMSC 838D	Advanced Topics in Information Processing - Question Answering Systems	3	Spring 1974
CMSC 838E	Advanced Topics in Information Processing - Heuristic Programming	3	Spring 1974
CMSC 899	Doctoral Dissertation Research	varied	Fall 1974

CMSC 838B	Advanced Topics in Information Processing - Question Answering Systems	3	Spring 1975
CMSC 838B	Advanced Topics in Information Processing - Question Answering Systems	3	Fall 1975
CMSC 498C	Design of Data Base Systems	3	Fall 1975
CMSC 899	Doctoral Dissertation Research	3	Fall 1975
CMSC 799	Master's Research	3	Spring 1976
CMSC 899	Doctoral Dissertation Research	3	Spring 1976
CMSC 498C	Special Problems in Computer Science - Data Base Management System Design	3	Spring 1976
Sabbatical Leave		Fall 1976
CMSC 620	Problem Solving Methods in Artificial Intelligence	3	Fall 1977
CMSC 828B	Logic and Data Bases	3	Fall 1978
CMSC 620	Problem Solving Methods in Artificial Intelligence	3	Fall 1979
CMSC 828B	Logic and Data Bases	3	Spring 1980
CMSC 498C	Data Base Design	3	Fall 1980
CMSC 828C	Logic and Problem Solving	3	Fall 1980
CMSC 498C	Data Base Design	3	Spring 1981
CMSC 798D	Advanced Topics in Problem Solving Systems	3	Spring 1981
CMSC 620	Problem Solving Methods in Artificial Intelligence	3	Fall 1981

CMSC 620	Problem Solving Methods in Artificial Intelligence	3	Spring 1982
CMSC 828C	Advanced Topics in Information Processing Predicate Logic and Problem Solving	3	Spring 1982
CMSC 424	Data Base Design		Fall 1982
CMSC 828C	Advanced Topics in Information Processing Logic and Problem Solving	3	Fall 1982
CMSC 720	Advanced Topics in Logic Programming		Fall 1983
Sabbatical Leave		Spring 1984
CMSC 620	Problem Solving Methods in Artificial Intelligence	3	Fall 1984
CMSC 828	The Art of PROLOG	3	Spring 1986
CMSC 424	Database Design	3	Fall 1986
CMSC 424	Database Design	3	Fall 1987
CMSC 424	Database Design	3	Fall 1988
CMSC 720	Logic for Problem Solving	3	Spring 1989
Sabbatical Leave		Fall 1990
CMSC 424	Database Design	3	Fall 1991
CMSC 620	Problem Solving Methods Artificial Intelligence	3	Spring 1992
CMSC 424	Database Design	3	Spring 1993
CMSC 720	Logic for Problem Solving	3	Fall 1993
CMSC 828M	Foundations of Logic Programming	3	Spring 1994
CMSC 424	Database Design	3	Fall 1994

CMSC 424	Database Design	3	Spring 1995
CMSC 424	Database Design	3	Fall 1995
CMSC 620	Problem Solving Methods in Artificial Intelligence	3	Spring 1996
CMSC 150	Discrete Structures	3	Spring 1997
CMSC 424	Database Design	3	Fall 1997
CMSC 424	Database Design	3	Spring 1998