

## VITA

Leslie Miller  
Professor  
Department of Computer Science  
Iowa State University  
Ames, Iowa 50011

Telephone: 515-294-4377  
Fax: 515-294-0258

### Education

University of South Dakota, B.A., Mathematics, 1967  
University of South Dakota, M.A., Mathematics, 1974  
Southern Methodist University, Ph.D., Computer Science, 1980

### Employment Experience

1993-present Professor, Department of Computer Science, Iowa State University  
1999-2001 Chair, Department of Computer Science, Iowa State University  
1998-1999 Interim Chair, Department of Computer Science, Iowa State University  
1987-1993 Associate Professor, Department of Computer Science, Iowa State University  
1984-1987 Assistant Professor, Department of Computer Science, Iowa State University  
1980-1984 Assistant Professor, School of Electrical Engineering and Computer Science,  
University of Oklahoma  
1977-1980 Teaching Assistant, Department of Computer Science, Southern Methodist  
University  
1974-1977 Instructor, Department of Mathematics, University of South Dakota  
1973-1974 Teaching Assistant, Department of Mathematics, University of South Dakota  
1970-1973 Instructor, Mathematics, White River High School, South Dakota  
1967-1970 Instructor, Mathematics and Chemistry, Newell High School, South Dakota

### Professional Organizations

ACM 1975-present.  
IEEE Computer Society 1985-present.

### Professional Activities

Board of Directors, International Society for Computers and their Applications. 2011-present.

National Academy of Science exchange scientist (Poland) March-April 1991.

Vice President, International Society for Computers and their Applications.  
Member of the executive committee 1990-1993.

Editor, The International Journal of Microcomputer Applications, a journal of the International Society of Mini and Microcomputers (ISMM) 1989-2000. Editorial Board 1988-2000.

European Academy of Science, Member, 2002-present.

International Academy, Research, and Industry Association (IARIA) Fellow 2011-present.

American Statistical Association/Census Research Fellow 7/15/03-7/14/04.

### **Grants and Contracts**

Principal Investigator, Investigations into Parallel File Organizations, funded by the National Science Foundation, 9/1/83 - 9/30/84 and 2/1/85-4/30/86, \$44,476.

Principal Investigator, Performance Studies for the AS400, funded by IBM, 1/1/91 - 12/31/91, \$40,000.

Principal Investigator, Extending Object Oriented Issues on the AS/400, funded by IBM, 1/1/92 - 12/31/92, \$61,992.

Principal Investigator, Extending Object Oriented Issues on the AS/400, funded by IBM, 1/1/93 - 12/31/93, \$61,992.

Co-Principal Investigator, Using the AS/400 for Teaching and Research, funded by IBM, fall 1990 - fall 1992, Equipment and Software, \$1,016,000.

Academy of Science exchange scientist, funded by the National Research Council, 3/27/91 - 4/28/91, \$1500.

Co-Principal Investigator, Development of a Genetic Algorithm for Protein Structure Prediction, Ames Lab (DOE), 1/99 - 10/99, \$35,700.

Co-Principal Investigator, Intelligent Multi-Agent Systems for Intrusion Detection, National Security Agency, 9/1998 - 8/2000, \$199,769.

Co-Principal Investigator, Development of Protein Structure Prediction Algorithms, Carver Trust Fund, 7/1/99 - 6/30/00, \$25,000.

Co-Principal Investigator, Distributed Knowledge Networks, John Deere Corp., 5/1/99 - 4/30/00, \$30,000.

Co-Principal Investigator, An Agent-Based System for Integration and Analysis of Distributed, Heterogeneous Plant Genome Databases, Pioneer, 01/01/2000 - 12/31/2001, \$40,000.

Co-Principal Investigator, Algorithmic Tools for Microarray Data Analysis, Carver Foundation, 6/01/2000 - 5/31/2001, \$25,000.

Co-Principal Investigator, Interactive and Dynamic Visual Overviews of Large Multi-Dimensional Data, NSF, 10/1/99 - 9/30/03, \$370,000.

Co-Principal Investigator, Collecting and Using Geospatial Data in the Field An Extensible Framework and Testbed, NSF,Census,BLS,USDA,USGS, 9/1/00-8/31/04, \$1,700,000.

Senior Personnel, Geospatial Data Quality, NSF, 9/1/01-8/31/04, \$1,500,000.

Principal Investigator, Infrastructure Models for Supporting Large Field Data Collection, American Statistical Association, NSF, Census, 7/15/03-7/14/04, \$69,638

Co-Principal Investigator, Arabidopsis Systems Biology Computational Software. National Science Foundation. 9/1/05-8/31/07. \$969,634.

Co-Principal Investigator, Development of a Cognitive Model to Simulate Map-based Tasks for Address Canvassing. Bureau of Census. 10/1/05-9/30/06. \$24,990.

Principal Investigator, Map Use in the 2010 Census. Bureau of Census. 5/1/05-4/30/06. \$84,685.

Co-Principal Investigator, US Department of Agriculture Bioinformatics Training Grant. 10/15/2006-10/14/2011. \$252,000.

Co-Principal Investigator, Accommodating Individual Differences in Software Designed for Location-Based Survey Tasks. National Science Foundation. 10/1/2008-3/30/2012. \$230,000.

## Publications

Rusch, M. L., S. M. Nusser, L. L. Miller, G. I. Batinov, and K. C. Whitney. (2012). Spatial Ability and Map-Based Software Applications. Accepted to *The Fifth International Conference on Advances in Computer-Human Interactions*. Valencia, Spain. January 30-February 4, 2012.

Tsai, Hsine-Jen, Les Miller, Ming Hua, Sree Nilakanta, and Meher Vani Bojja. (2012) Expanding the Disaster Management Knowledge Space Through Spatial Mediation. Accepted to *Hawaiian International Conference on System Sciences*. January 4, 2012. Maui, Hawaii.

Batinov, G.J, K.C. Whitney, L.L. Miller, S.M. Nusser, and K.T. Ashenfelter. (2011). Decision Models for an Address Verification Field Task. *Twenty-sixth International Conference on Computers and Their Applications*. New Orleans, LA. pp. 9-14.

Whitney, K.C., G.J. Batinov, L.L. Miller, S.M. Nusser, and K.T. Ashenfelter. (2011). Exploring the Cognitive Sensitivity of a Map Survey Task. *The Fourth International Conference on Advances in Computer-Human Interactions*. Gosier, Guadeloupe, France. February 23-28, 2011. pp. 63-68.

Sharma, Alok, Les Miller, and Sree Nilakanta. (2011). Managing Knowledge for Organization-wide ad hoc Committees. *44<sup>th</sup> Hawaiian International Conference on System Sciences*. January 2011. pp. 1-10.

Ali R. Hurson, Sahra Sedigh, Les Miller, Behrooz Shirazi. (2011). Enriching STEM education through personalization and teaching collaboration. *PerCom Workshops 2011*. pp. 543-549

Whitney, K.C., G.J. Batinov, L.L. Miller, S.M. Nusser, and K.T. Ashenfelter. (2010). Understanding the User's Approach Toward Location-based Field Tasks. *ISCA 25th International Conference on Computer Applications in Industry and Engineering*. Las Vegas, NV. pp. 156-161.

Miller, Les. (2010). Modeling Error-based Adaptive User Interfaces. *ISCA 25th International Conference on Computers and Their Applications*. pp. 101-107.

Nilakanta, Sree, Les Miller, Andrea Peer, Vani M. Bojja. (2009). Contribution of Knowledge and Knowledge Management Capability on Business Processes among Healthcare Organizations. *Hawaiian International Conference on System Sciences*. pp. 1-9.

Alfred Taylor, Sr., Les Miller, Sree Nilakanta, Jeffry Sander, Saayan Mitra, Anurag Sharda and Bachar Chama. (2009). Using an Error Detection Strategy for Improving Web Accessibility for Older Adults. *The Second International Conferences on Advances in Computer-Human Interactions*. Cancun, Mexico. pp. 375-380.

Taylor, Alfred, Les Miller, and Sree Nilakanta. (2009). Evaluating Older Adults to Improve Web Accessibility. *ISCA 24th International Conference on Computers and Their Applications*. New Orleans, La. pp. 13-18.

Miller, Les, Sree Nilakanta, Yunan Song, Lei Zhu, and Ming Hua. (2008). Managing Knowledge in Organizational Memory Using Topic Maps. *International Journal of Knowledge Management*. Vol. 4. No. 1. pp. 17-28.

Fu, Fengli, Jeffry Sander, Morgan Maeder, Stacy Thibodeau-Beganny, J. Joung, Drena Dobbs, Leslie Miller, Daniel Voytas. (2008). Zinc Finger Database (ZiFDB): a repository for information on C2H2 zinc fingers and engineered zinc finger arrays. *Nucleic Acids Research*. Vol. 37. pp D279-83.

Miller, Les, Sree Nilakanta, and Meghana Rao. (2008). Enabling Knowledge Management of Organizational Memory for Groups through Shared Topic Maps. *2008 International Conference on Information Resources Management (Conf-IRM 2008)*. Niagara Falls, Ontario. Paper 25. <http://aisel.aisnet.org/confirm2008/25>

Miller, Les, Sree Nilakanta, and Meghana Rao. (2008). Supporting Knowledge Management Within Process and Group Settings Using Visual Topic Maps. *ISCA 23rd International Conference on Computers and Their Applications (CATA-2008)*. April 9-11, 2008. Cancun, Mexico. pp. 9-14.

Wurtele, E.S., L. Li, D. Berleant, D. Cook, J.A. Dickerson, J. Ding, H. Hofmann, M. Lawrence, E.K. Lee, J. Li, W. Mentzen, L. Miller, B.J. Nikolau, N. Ransom, Y. Wang, (2007). MetNet: Systems Biology Software for Arabidopsis. In: *Concepts in Plant Metabolomics*. Springer. pp 145-158.

Miller, Les, Hua Ming, Hsine-Jen Tsai, Becca Wemhoff and Sarah Nusser. 2007. Supporting Geographic Data in the Mobile Computing Environment. *ISCA 20th International Conference on Parallel and Distributed Computing Systems*. Las Vegas, NV. pp. 56-61.

Les Miller, Sree Nilakanta, Yunan Song, Lei Zhu, and Ming Hua. 2007. Providing a Visual Approach to Managing Knowledge in Organizational Memory Using Topic Maps. *ISOneWorld Conference*. pp. 53-1:11.

Sree Nilakanta, Les Miller, Yunan Song, and Lei Zhu. 2007. Supporting Topic Maps in an Organizational Memory Web Server. *Information Resources Management Association International Conference*.

Les Miller, Jing Ding, and Sarah Nusser. 2007. An Accuracy Model for Relational Databases. *ISCA 22nd International Conference on Computers and Their Applications*. pp. 225-230.

Les Miller, Sree Nilakanta, Yunan Song, Lei Zhu, and Ming Hua. 2007. Knowledge Management: Using Topic Maps in Organizational Memory. *Hawaiian International Conference on System Sciences*. pp. 204b.

L. Miller, S. Nilakanta, Y. Song, L. Zhu, M. Hua. 2008. Managing Knowledge in Organizational Memory Using Topic Maps. *International Journal of Knowledge Management*, IGI Publishing. Vol. 4. No. 1. pp. 17-28.

Cook, Di and Leslie Miller. (2006). Rotating Plots. in *Graphics of Large Datasets*. Antony Unwin, Martin Theus, and Heike Hofmann (editors). Springer. New York. Pages 125-141.

Helmer, G., J. Wong, M. Slagell, V.Honavar, L. Miller, Y. Wang, X. Wang, N. Stakhanova. (2007). Software Fault Tree and Colored Petri Net Based Specification, Design and Implementation of Agent-Based Intrusion Detection Systems. *International Journal of Information and Computer Security*. Pages 109-142.

Wang, Yanxin, Smruti Ranjan Behera, Johnny Wong, Guy Helmer, Vasant Honavar, Les Miller, Robyn Lutz. (2006). Towards the automatic generation of mobile agents for distributed intrusion detection systems. *Journal of Systems and Software*. Vol. 79. No. 1. pp. 1-14.

Hsine-Jen Tsai, Les Miller, Hua Ming, Becca Wemhoff and Sarah Nusser. 2006. Combining Spatial Data from Multiple Data Sources. *ISCA 19th International Conference on Computer Applications in Industry and Engineering*. Pages 89-94.

Sree Nilakanta, Les Miller, and Dan Zhu. (2006). Organization Memory Management: Technological and Research Issues. *Journal of Database Management*. Vol. 17 No. 1 pp. 85-94.

Jing Zhang, Di Cook, and Les Miller. (2005). Limn Matrix: A Tool for Visualizing Large, Distributed, High-Dimension Data Sets. *17th International Conference of Computer Applications in Industry and Engineering*. Honolulu, HI. pp. 263-268

Jing Zhang, Les Miller, and Di Cook. (2005). Index Support for Visualizing Large, Distributed, High-Dimension Data Sets. *17th International Conference of Parallel and Distributed Computing Systems*. Las Vegas, NV.

Honavar, V., Miller, L., and Wong, J. (2004). Distributed Knowledge Networks. In: *Unifying Themes in Complex Systems*. Bar-Yam, Y. and Minai, A. (Ed). Boston: Perseus Books.

Miller, Les, Bing Zou, Ming Hua, Sarah Nusser. (2004). Supporting a Virtual Office Environment for Federal Agency Field Operations. *The Third International Conference on Politics and Information Systems: Technologies and Applications (PISTA '04)*. Orlando, FL. Pages 84-88.

Miller, L.L. (2004). Supporting Federal Agency Field Operations. *The 2004 International Conference on Information and Knowledge Engineering*. Las Vegas, NV. Pages 436-441.

Zhang, Jing, Leslie Miller, Dianne Cook, Aulia Hardjasamudra, and Heike Hofman. (2003) Densityplot Matrix Display for Large Distributed Data. *Third International Workshop on Visual Data Mining*. Pages 59-70.

Nusser, Sara, Les Miller, Keith Clarke, and Mike Goodchild. (2003). Geospatial IT for Mobile Field Data Collection. *Communications of the ACM*. Vol. 46. No. 1. Pages 45-46.

Tsai, H.-J., J. Xu, S. Lin, L.L. Miller. (2003). Incorporating Function Ontologies into the Integration of Data Sources. *Eighteen International Conference on Computers and Their Applications*. Pages 184-7.

Helmer, G., Wong, J., Honavar, V., Miller, L. and Wang, Y. (2003). Lightweight Agents for Intrusion Detection. *The Journal of Systems and Software*. Vol. 67. No. 2. Pages 109-122.

Suribhatla, Ramesh, L.L. Miller, and M. Mehdi Owrang O. (2003). Supporting Object and Relational Data in a Data Warehouse. *Information Resources Management Association International Conference*. Vol.3, Pages 496-499.

Miller, Les. (2002). IT Support for Field Operations in Land Reclamation Projects: Today and Tomorrow. *International Symposium on Land Consolidation and Rehabilitation*. Beijing, China. Pages 39-52.

Miller, L.L. and Sarah Nusser. (2002). Supporting Geospatial Data in the Field. *Eleventh GITA Conference on Geographic Information Systems for Oil and Gas*. Pages 139-151.

Guy Helmer, Johnny Wong, Mark Slagell, Vasant Honavar, Les Miller, Robyn Lutz: (2002). A Software Fault Tree Approach to Requirements Analysis of an Intrusion Detection System. *Requirements Engineering*. Vol. 7. No. 4, Pages 207-220.

Pai, P., L.L. Miller, V. Honavar, J. Wong, and S. Nilakanta. (2002). Supporting Organizational Knowledge Management with Agents. in D. White(eds) *Knowledge Mapping and Management*. Pages 266-280.

Helmer, G., J. Wong, V. Honavar, and L.L. Miller. (2002). Automated Discovery of Concise Predictive Rules for Intrusion Detection. *Journal of Systems and Software*. Vol. 60. No. 2. Pages 165-175.

Miller, L.L., Xin Yu, and Sree Nilakanta. (2002). Integration of Databases and Record-Based Legacy Systems for Populating Data Warehouses. *Thirty-Fifth Hawaii International Conference on System Sciences*. Pages 3033 - 3041.

Miller, L.L. and Sree Nilakanta. (2001). A Committee-Based Model for Supporting Organizational Knowledge Management. *Annual Conference of the International Academy for Information Management*. Pages 317-326.

Tsai, Hsine-Jen, L.L. Miller, Jian Xu, and Sa Lin. (2001). Using Ontologies to Integrate Domain Specific Data Sources. *ISCA 3rd International Conference on Information Reuse and Integration*. Las Vegas, NV. Pages 62-67.

Miller, L.L., Nikhil Sathe, Ming Hua, Dhigha Sekaran, Sarah Nusser, and Pheishang Zhao. (2001). An Infrastructure for Delivering Geospatial Data to Field Users. *The IASTED International Conference on Parallel and Distributed Computing and Systems*. Anaheim, CA.

Lin, Sa, L.L. Miller, Hsine-Jen Tsai and Jian Xu. (2001). Integrating a Heterogeneous Distributed Data Environment with a Database Specific Ontology. *ISCA 2001 Parallel and Distributed Systems Conference*. Dallas, Texas. Pages 430-435.

Wong, J., G. Helmer, V. Naganathan, S. Polavarapu, V. Honavar, and L. Miller. (2001). SMART Mobile Agent Facility. *Journal of Systems and Software*. Vol. 56. Pages 9-22.

Helmer, G., Wong, J., Slagell, M., Honavar, V., Miller, L. and Lutz, R. (2001). A Software Fault Tree Approach to Requirements Analysis of an Intrusion Detection System. *Proceedings of the Symposium on Requirements Engineering for Information Security*, Indianapolis, IN.

Sekaran, Dhigha and L.L. Miller. (2001) Developing a Modern Land Records System. *16th International Conference on Computers and their Applications*. Seattle, Washington.

Segun, K., A.R. Hurson, V. Desai, A. Spink, and L.L. Miller. (2001). Transaction Management in a Mobile Data Access System. *Annual Review of Scalable Computing*. Pages 85-147.

Wu, L., L.L. Miller, and S. Nilakanta. (2001). Design of Data Warehouses using Metadata. *Information and Software Technology*. Vol. 43. No. 2. Pages 109-20.

Min, Y., L. Miller, and M.M. Owrang. (2000). A Calculus for Handling Time in Complex Objects. *International Journal of Computer Systems Science and Engineering*. Vol.15. No. 4. pp. 253-260.

Chedhadeh, Y.C., A.R. Hurson, and L.L. Miller. (2000). Energy-Efficient Indexing on a Broadcast Channel in a Mobile Database Access System. *International Conference on Information Technology: Coding and Computing*. Las Vegas, NV. pp. 368-374.

Miller, L.L., Ying Lu, Yeping Zhou, A.R. Hurson. (2000). A Data Warehouse Based on Materializing Object-Oriented Views. *International Conference on Computers and Their Applications*. New Orleans, LA. pp. 68-71.

Pai, P., L.L. Miller, S. Nilakanta, V. Honavar, J. Wong. (2000). Supporting organizational knowledge management with agents. *Eleventh International Conference of the Information Resources Management Association*. Anchorage, Alaska. pp. 325-9.

Helmer, G., Wong, J., Honavar, V., and Miller, L. (1999). Data-driven induction of compact predictive rules for intrusion detection from system log data. *Proceedings of the Conference on Genetic and Evolutionary Computation(GECCO99)*.

Dandu, R., L. Miller, S. Nilakanta, and V. Honavar. 1999. Populating data warehouse with mobile agents. *The Tenth International Conference of the Information Resources Management Association*. Hershey, PA. pp. 468-473.

Yen, C.H., L.L. Miller, A. Sirjani and J. Tenner. 1998. Extending the object-relational interface to support an extensible view system for multidatabase integration and interoperation.

International Journal of Computer Systems Science and Engineering. Vol. 13, No. 4, Pages 227-240.

Honavar, V., L.L. Miller, and J. Wong. 1998. Distributed Knowledge networks. IEEE Information Technology Conference. Pages 87-90.

Miller, L.L., V. Honavar, J. Wong, and S. Nilakanta. 1998. Object-oriented data warehouse for information fusion from heterogeneous distributed data and knowledge sources. IEEE Information Technology Conference. Pages 27-31.

Yang, J., R. Havaladar, V. Honavar, L.L. Miller, and J. Wong. 1998. Coordination of distributed knowledge networks using contract net protocol. IEEE Information Technology Conference. Pages 71-74.

Yang, J., V. Honavar, L.L. Miller, and J. Wong. 1998. Intelligent mobile agents for information retrieval and knowledge discovery from distributed data and knowledge sources. IEEE Information Technology Conference. Pages 99-103.

Yang, J., P. Pai, V. Honavar and L.L. Miller. 1998. Mobile intelligent agents for document classification and retrieval: A machine learning approach. European Symposium on Cybernetics and Systems Research.

Wen Hu, L.L. Miller and Sree Nilakanta. 1998. PROMIS: A profiler of organizational memory and institutional systems. The Ninth International Conference of the Information Resources Management Association.

Miller, L.L. and Sree Nilakanta. 1998. Data warehouse modeler: A case tool for warehouse design. Hawaiian International Conference on Systems Science. Pages 42-48.

Miller, L.L., Vasant Honavar and Tom Barta. 1997. Warehousing structured and unstructured data for data mining. ASIS'97. Pages 215-224.

Carr, Don, L.L. Miller and Terry Smay. 1997. A real-time system for high transaction loads and moderate deadlines. International Society for Computers and Their Applications 12th Annual Conference. Pages 134-139.

Miller, L.L. and S. Nilakanta. 1997. The design and development of an organizational memory system. Hawaiian International Conference on Systems Science. Pages 360-368.

Lim, J.B., A.R. Hurson and L.L. Miller. 1997. A dynamic cluster scheme for distributed object oriented databases. The proceedings of the Eleventh International Conference on Mathematical and Computer Modelling and Scientific.

Miller, L.L. and M.M. Owrang. 1997. A dynamic approach for finding the join sequence in a universal relation interface. Journal of Integrated Computer-Aided Engineering. No. 4. Pages 310-318.

Leszczyłowski. J. and L.L. Miller. 1995. Towards an amalgamated database system. ISMM International Conference on Intelligent Information Management Systems. Pages 65-68.



Miller, L.L. and C-H. Yen. 1995. Achieving large-scale design and code reuse in the development of distributed heterogeneous information systems. *Journal of Computing and Information. Special Issue: Proceedings of Seventh International Conference of Computing and Information.* Pages 886-900.

Yen, C.H. and L.L. Miller. 1995. An extensible view system for multidatabase integration and interoperation. *Integrated Computer-Aided Engineering.* Vol. 2. No. 2. Pages 97-123.

Miller, L.L., J. Leszczykowski, S.K. Gadia and P. Chan. 1994. A storage model for processing semantic exceptions. *International Journal of Computer Systems Science and Engineering.* Vol. 9. No. 3. Pages 195-204.

Yen, C.H., L.L. Miller and J. Wong. 1994. A framework-based approach to the design of distributed multimedia information systems. *First ISMM International Conference on Distributed Multimedia Systems and Applications.* Pages 266-270.

Yen, C.H., L.L. Miller and J. Wong. 1994. The architectural design of the zeus multimedia system. *IASTED Parallel and Distributed Computing and Systems Conference.* Pages 247-252.

Yen, C.H., L.L. Miller and S.H. Pakzad. 1994. The design and implementation of the zeus view system. *Hawaiian International Conference on Systems Science.* Pages 206-215.

Yen, C.H., L.L. Miller, A. Sirjani and J. Tenner. 1994. Extending the object-relational interface to support an extensible view system for multidatabase integration and interoperation. *ISMM International Conference on Intelligent Information Management Systems.* Pages 56-61.

Miller, L.L., S.H. Pakzad and A.R. Hurson(eds). 1994. *Parallel architectures for data/knowledge base systems.* IEEE tutorial series.

Miller, L.L. and S.R. Inglett. 1994. Enhancing performance in a parallel file system. *Microprocessing and Microprogramming.* Vol. 40. Pages 261-274.

Leuchner, J., L.L. Miller, G. Slutzki. 1994. A note on the equivalence of a set of egds to a set of fds. *Information Processing Letters.* Vol. 49. Pages 185-188.

Scholerman, S., L. Miller, J. Tenner, S. Tomanek, and M. Zolliker. 1993. Relational database integration in the IBM AS/400. *SIGMOD Record.* Vol. 22. No. 4. Pages 5-10.

Owring, M.M. and L.L. Miller. 1993. Universal Relations Interface. *ISCA International Conference on Computer Applications in Industry and Engineering.* Pages 217-222.

He, M., L.L. Miller, A.R. Hurson, D. Sheth. 1993. An efficient storage protocol for distributed object oriented databases. *Fifth IEEE Symposium on Parallel and Distributed Processing.* Pages 606-610.

Chehadeh, Y.C., A.R. Hurson, L.L. Miller and B.N. Jamoussi. 1993. Application of parallel disks for efficient handling of object-oriented databases. *Fifth IEEE Symposium on Parallel and Distributed Processing.* Pages 184-191.

Hansen, L.R. and L.L. Miller. 1993. Update policy for a generalized notion of objects in object databases. ISCA International Conference of Computer Applications in Design, Simulation and Analysis. Pages 110- 114.

Miller, L. L. and S. Nilakanta. 1993. Organizational decision support systems: The design and implementation of a data extraction scheme to facilitate model-database communication. Journal of Decision Support Systems. Vol. 9. Pages 201-215.

Roberts, J.L. and L.L. Miller. 1993. A prototype of the generation of views for an object/relational interface. ISCA International Conference of Computer Applications in Design, Simulation and Analysis. Pages 138-141.

Miller, L. L. 1992. Generating hinges from arbitrary subhypergraphs. Information Processing Letters. Vol. 41. No. 6. Pages 307-312.

Hurson, A.R., B. Jin, S.H. Pakzad and L.L. Miller. 1992. Artificial neural systems in decision-aiding for large incomplete databases. Heuristics - The Journal of Knowledge Engineering. Vol. 5. No. 3. Pages 16-40.

Miller, L.L., A.R. Hurson and S.R. Inglett. 1992. PASS - A multiuser parallel file system based on microcomputers. Journal of Systems and Software. Vol. 19. No. 2. Pages 75-83.

Miller L. L., A. R. Hurson, J. K. Huang and S. H. Pakzad. 1992. Comparing database processor configurations in the database machine - ASLM. International Journal of Computer Systems Science and Engineering. Vol. 7. No. 1. Pages 17-24.

Royer, D., L. L. Miller and J. Leszczykowski. 1992. Correctness of a relational storage model to support dynamic scheme evolution. International Conference on Computer Applications in Design, Simulation and Analysis. Pages 1-5.

L. L. Miller and K. H. Baik. 1992. Topological approach to databases. International Conference on Computer Applications in Design, Simulation and Analysis. Pages 6-9.

M. M. Owrang and L. L. Miller. 1992. New approach for deadlock resolution in a distributed database systems. International Conference on Computer Applications in Design, Simulation and Analysis. Pages 10-13.

Pakzad, S., B. Jin and L. L. Miller. 1992. Design and analysis of an intelligent support system for large databases. Hawaiian International Conference on Systems Science. 25. Pages 348-358.

Miller, L. L. and A. R. Hurson. 1991. Multiprogramming and concurrency in the parallel file environment. International Journal of Mini and Microcomputers. Vol. 13. No. 2. Pages 37-45.

Leuchner, J., L. L. Miller, G. Slutzki. 1991. Agreement graph dependencies. Bulletin of the European Association for Theoretical Computer Science. No. 45. Pages 202-217.

Miller, L. L. and L. Chu. 1991. Incorporating maybe algebra into the intensional database. International Conference on Computer Applications in Design, Simulation and Analysis. Pages 166-169.

Miller, L. L. and S. Nilakanta. 1991. Design of an organizational decision support system: The use of data extraction to facilitate model/database communication. Hawaiian International Conference on Systems Science. Vol. 4. Pages 65-72.

Lin, H. N., L. L. Miller and M. M. Owrang. 1991. A universal relation language interface for INGRES. ACM Computer Science Conference. Pages 321-331.

Hurson, A. R., L. L. Miller, S. H. Pakzad, and C. Fan. 1991. Functional dependencies as a means to enforce integrity constraints: Application and implementation in database machine environment. International Journal of Computer Systems Science and Engineering. Vol. 6. No. 2. Pages 91-101.

Miller, L. L. and D. D. Visor. 1991. Generating maximal objects based on the database design. ISMM International Conference on Microcomputer Applications. Pages 63-66.

Hurson, A. R., S. H. Pakzad, D. B. Shin and L. Miller. 1991. A reconfigurable MIMD backend database machine. Journal of Parallel and Distributed Computing. Vol. 11. Pages 37-50.

B. Jin, A. R. Hurson and L. L. Miller. 1991. Neural network-based decision support for incomplete database systems. ACM Analysis of Neural Network Applications Conference. Pages 62-75.

Pakzad, S. H., A. R. Hurson, and L. L. Miller. 1990. Maybe algebra and incomplete data in the database machine ASLM. Database Technology. Vol. 3. No. 2-4. Pages 103-115.

Miller, L. L., J. Leuchner, S. Kothari and K. Liu. 1990. Testing arbitrary subhypergraphs for the lossless join property. Journal of Information Sciences. Vol. 51. Pages 95-110.

Leuchner, J., L. L. Miller and G. Slutzki. 1990. Using partial pictures to view agreement in database relations. International Computer Symposium. Pages 190-195.

Miller, L. L. and A. R. Hurson. 1990. A parallel binary search processor for fast data retrieval. International Journal of Mini and Microcomputers. Vol. 12. No. 1. Pages 29-35.

Miller, L. L. and K. Dean. 1990. Performance of Dynamic Hashing in the PASS Environment. ISMM International Conference of Microcomputer Applications. Pages 50-53.

Baik, K. H. and L. L. Miller. 1990. Topological approach for testing equivalence in heterogeneous relational databases. The Computer Journal. Vol. 33. No. 1. Pages 2-10.

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Hurson, A. R., L. L. Miller, S. H. Pakzad and J. B. Cheng. 1990. Specialized parallel architectures for textual databases. Advances in Computers. Vol. 30. Pages 1-37.

Miller, L. L. and A. R. Hurson. 1989. Interpretation of null values in database machine architecture. Microprocessing and Microprogramming. Vol. 20. No. 4. Pages 289-300.

- Hurson, A. R., L. L. Miller, S. H. Pakzad and B. Shirazi. 1989. Performance evaluation of an associative parallel join module. *International Journal of Computer Systems Science and Engineering*. Vol. 4. No. 3. Pages 131-146.
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- Miller, L. L., A. R. Hurson, H. J. Tsai and S. H. Pakzad. 1989. Handling temporal databases in the ASLM - A backend database machine. *International Journal of Computer Systems Science and Engineering*. Vol. 4. No. 2. Pages 78-88.
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