

# Robert L. Grossman

## Publications

### Articles in Refereed Journals

1. R. Grossman, A note on the application of Morse theory to the study of the potential extrema of body surface potential maps, Volume 11, 1978, pages 201-202.
2. M. Beals, C. Fefferman, R. Grossman, Strictly pseudoconvex domains in  $\mathbb{C}^n$ , Bulletin American Mathematical Society, Volume, 8, 1983, pages 125-322.
3. R. Grossman and R. Larson, Hopf algebraic structures of families of trees, Journal Algebra, Volume 26, 1989, pages 184-210.
4. R. Grossman and R. Larson, Hopf-algebraic structure of combinatorial objects and differential operators, Israel Journal Mathematics, Volume 72, 1990, pages 109-117.
5. Matt Grayson and Robert Grossman, Models for free, nilpotent Lie algebras, Journal Algebra, Vol. 35, 1990, pages 177-191.
6. Robert Grossman and Richard Larson, Solving nonlinear equations from higher order derivations in linear stages, Advances in Mathematics, Vol. 82, 1990, pages 180-202.
7. Robert Grossman, The evaluation of expressions involving higher order derivations, Journal of Mathematical Systems, Estimation, and Control, Volume 1, 1991, pages 91-106.
8. Robert L. Grossman and Richard G. Larson, The realization of input-output maps using bialgebras, Forum Mathematicum, Volume 4, 1992, pages 109-121.
9. M. W. Bern, D. P. Dobkin, D. Eppstein, and R. Grossman, Visibility with a moving point of view, Algorithmica, Volume 11, pages 360-378, 1994.
10. Robert L. Grossman and Richard G. Larson, The symbolic computation of derivations using labeled trees, Journal of Symbolic Computation, Volume 13, pages 511-523, 1992.
11. Peter Crouch and Robert L. Grossman, Numerical integration of ordinary differential equations on manifolds, Journal of Nonlinear Science, Volume 3, pages 1-33, 1993.
12. Robert Grossman and H. Vincent Poor, Wavelet transforms associated with finite cyclic groups, IEEE Transactions on Information Theory, Volume 39, 1993, pp. 1157-1166.
13. Peter E. Crouch, Robert Grossman, Y. Yan, On the numerical integration of the rolling ball equations using geometrically exact algorithms, Mechanics of Structures of Machines, Volume 23, Issue 2, 1995, pages 257-272.
14. Robert L. Grossman and Robert G. Larson, An algebraic approach to hybrid systems, Journal of Theoretical Computer Science, Volume 138, pages 101-112, 1995.
15. R. L. Grossman, Data Mining Challenges for Digital Libraries, ACM Computing Surveys, Volume 28A (electronic), December, 1996.
16. R. L. Grossman, S. Bailey, A. Ramu and B. Malhi, P. Hallstrom, I. Pulley and X. Qin, The Management and Mining of Multiple Predictive Models Using the Predictive Model Markup Language (PMML), Information and Software Technology, Volume 41, 1999, pages 589-595.

17. Robert Grossman, and Marco Mazzucco, DataSpace - A Web Infrastructure for the Exploratory Analysis and Mining of Data, IEEE Computing in Science and Engineering, July/August, 2002, pages 44-51.
18. Robert Grossman, Mark Hornick, and Gregor Meyer, Data Mining Standards Initiatives, Communications of the ACM, Volume 45-8, 2002, pages 59-61.
19. H. Sivakumar, R. L. Grossman, M. Mazzucco, Y. Pan, Q. Zhang, Simple Available Bandwidth Utilization Library for High-Speed Wide Area Networks, Journal of Supercomputing, Volume 34, Number 3, pages 231-242, 2005.
20. Robert L. Grossman, Yunhong Gu, Dave Hanley, Xinwei Hong, Dave Lillethun, Jorge Levera, Joe Mambretti, Marco Mazzucco, and Jeremy Weinberger, Experimental Studies Using Photonic Data Services at IGrid 2002, Journal of Future Computer Systems, 2003, Volume 19, Number 6, pages 945-955.
21. Andrei L. Turinsky and Robert L. Grossman, Intermediate Strategies: A Framework for Balancing Cost and Accuracy in Distributed Data Mining, Knowledge and Information Systems, 2004, to appear.
22. Asvin Ananthanarayan, Rajiv Balachandran, Yunhong Gu, Robert Grossman, Xinwei Hong, Jorge Levera, Marco Mazzucco, Data Webs for Earth Science Data, Parallel Computing, Volume 29, 2003, pages 1363-1379.
23. J. Mambretti, J. Weinberger, J. Chen, E. Bacon, F. Yeh, D. Lillethun, R. Grossman, Y. Gu, M. Mazzucco, The Photonic TeraStream: Enabling Next Generation Applications Through Intelligent Optical Networking at iGrid 2002, Journal of Future Computer Systems, Elsevier Press, Volume 19, Number 6, pages 897-908.
24. Chong Zhang, Jason Leigh, Thomas A. DeFanti, Marco Mazzucco and Robert Grossman, TeraScope: Distributed Visual Data Mining of Terascale Data Sets Over Photonic Networks, Journal of Future Computer Systems, 2003, Volume 19, Number 6, pages 935-943
25. Ian Foster and Robert L. Grossman, Data Integration in a Bandwidth Rich World, Communications ACM, Volume 46, Issue 11, November, 2003, pages 50-57.
26. A. Chien, T. Faber, A. Falk, J. Bannister, R. Grossman, J. Leigh, Transport Protocols for High Performance: Whither TCP?, Communications ACM, Volume 46, Issue 11, November, 2003, pages 42-49.
27. Robert L. Grossman, Pavan Kasturi, Donald Hamelberg, Bing Liu, An Empirical Study of the Universal Chemical Key Algorithm for Assigning Unique Keys to Chemical Compounds, Journal of Bioinformatics and Computational Biology, 2004, Volume 2, Number 1, 2004, pages 155-171.
28. Yunhong Gu and Robert L. Grossman, SABUL: A Transport Protocol for Grid Computing, Journal of Grid Computing, Volume 1, pages 377-386, 2004.
29. Bing Liu, Robert L. Grossman and Yanhong Zhai, Mining Web Pages for Data Records, IEEE Intelligent Systems, November/December, 2004, pages 49-55.
30. Robert L. Grossman, Yunhong Gu, Xinwei Hong, Antony Antony, Johan Blom, Freek Dijkstra, and Cees de Laat, Teraflows over Gigabit WANs with UDT, Journal of Future Computer Systems, Elsevier Press, Volume 21, Number 4, 2005, pages 501-513.
31. Robert L. Grossman, Yunhong Gu, Dave Hanley, Xinwei Hong and Parthasarathy Krishnaswamy, Experimental Studies of Data Transport and Data Access of Earth Science Data over Networks with High Bandwidth Delay Products, Computer Networks, Volume 46, 2004, pages 411-421.

32. Robert L. Grossman and Richard G. Larson, Differential Algebra Structures on Families of Trees, *Advances in Applied Mathematics*, Volume 35, pages 97-119, 2005. Also arXiv:math/0409006v1 [math.QA].
33. Leland Wilkinson, Anushka Anand and Robert L Grossman, High-dimensional Visual Analytics: Interactive Exploration Guided by Pairwise Views of Point Distribution, *IEEE Transactions on Visualization and Computer Graphics*, Volume 12, Number 6, pages 1363-1372, 2006.
34. Robert L. Grossman, Yunhong Gu, David Handley, and Michal Sabala Joe Mambretti, Alex Szalay and Ani Thakar, Kazumi Kumazoe and Oie Yuji, Minsun Lee, Yoonjoo Kwon, and Woojin Seok, Data Mining Middleware for Wide Area High Performance Networks, *Journal of Future Generation Computer Systems (FGCS)*, Volume 22, Number 8, pages 940-948, 2006.
35. Yunhong Gu and Robert L. Grossman, UDT: UDP-based Data Transfer for High-Speed Wide Area Networks, *Computer Networks*, Volume 51, Number 7, pages 1777-1799, 2007.
36. Robert L Grossman and Richard G. Larson, Hopf Algebras of Heap Ordered Trees and Permutations, *Communications in Algebra*, Volume 37, Issue 2, 2009, pages 453-459. Also arxiv.org/abs/0706.1327.
37. Robert L. Grossman, Yunhong Gu, Michael Sabala and Wanzhi Zhang, Compute and Storage Clouds Using Wide Area High Performance Networks, *Journal of Future Generation Computer Systems (FGCS)*, Volume 25, Issue 2, 2009, pages 179-183.
38. Yunhong Gu and Robert L Grossman, Sector and Sphere: Towards Simplified Storage and Processing of Large Scale Distributed Data, *Philosophical Transactions of the Royal Society A*, Volume 367, Number 1897, pages 2429-2445, 2009.
39. Robert L. Grossman, The Case for Cloud Computing, *IT Professional*, volume 11, number 2, pages 23-27, March/April 2009.
40. Feng Tian, Parantu K Shah, Xiangjun Liu, Nicolas Negre, Jia Chen, Oleksiy Karpenko, Kevin P White, Robert L Grossman, Flynet: a genomic resource for *Drosophila melanogaster* transcriptional regulatory networks, *Bioinformatics*, Volume 25, Number 22, pages 3001-3004, 2009.
41. Feng Tian, Jia Chen, Suying Bao, Lin Shia, Xiangjun Liua, and Robert Grossman, A graph model based study on regulatory impacts of transcription factors of *Drosophila melanogaster* and comparison across species, *Biochemical and Biophysical Research Communications*, Volume 386, Issue 4, 2009, Pages 559-562.
42. Yunhong Gu, Robert Grossman, Toward Efficient and Simplified Distributed Data Intensive Computing, *IEEE Transactions on Parallel and Distributed Systems*, Volume 22, Issue 6, pages 974-984, [doi.ieeecomputersociety.org/10.1109/TPDS.2011.67].
43. The modENCODE Consortium, Sushmita Roy, Jason Ernst, Peter V. Kharchenko, et. al., Identification of Functional Elements and Regulatory Circuits by *Drosophila* modENCODE, *Science*, Volume 330 (6012), pages 1787-1797, 2010, [doi:10.1126/science.1198374], PMID: 21177974.
44. Nicolas Negre, Christopher D. Brown, Lijia Ma, et. al., Cis-Regulatory Map of the *Drosophila* Genome, *Nature*, Volume 471, pages 527531, 2011, [doi:10.1038/nature09990], PMID: 21430782.

#### Articles in Refereed Proceedings

1. R. Grossman, Quantum Controllability, *Proceedings of the 23rd Conference on Decision and Control*, IEEE, 1984 pages 1466-7.
2. R. Grossman and C. Martin, The approximation and control of symmetric systems over the circle, *Mathematical Theory of Network and Systems*, Lecture Notes in Computer Science Voume 58, P. A. Fuhrmann, editor, Springer-Verlag, New York, 1984, pages 376-388.

3. R. Grossman and C. Martin, The approximation and control of symmetric systems over compact groups, Proceedings of the Berkeley-Ames Conference on Nonlinear Problems in Control and Fluid Dynamics, L. R. Hunt and C. F. Martin, editors, Math Sci Press, Brookline, 1984, pages 145-170.
4. R. Grossman and R. Larson, The symbolic computation of higher order derivations: symmetries of expressions and actions of group algebras, Differential Geometry: The Interface Between Pure and Applied Mathematics, Contemporary Mathematics, 68, M. Luksic, C. Martin and W. Shadwick, editors, American Mathematical Society, Providence, 1987, pages 121-131.
5. R. Grossman, P. S. Krishnaprasad, and J. E. Marsden, The dynamics of two coupled rigid bodies, Dynamical Systems Approaches to Nonlinear Problems in Systems and Circuits, F. M. A. Salam and M. L. Levi, editors, SIAM, Philadelphia, 1988, pages 373-378.
6. R. Grossman and R. Larson, Labeled trees and the algebra of differential operators, Graphs and Algorithms, Contemporary Mathematics, Volume 89, B. Richter, editor, American Mathematical Society, Providence, 1989, pages 81-87.
7. R. Fateman and R. Grossman, Computer algebra and operators, Symbolic Computation: Applications to Scientific Computing, R. Grossman, editor, SIAM, Philadelphia, 1989, pp. 1-14.
8. M. Grayson and R. Grossman, Nilpotent Lie algebras and vector fields, Symbolic Computation: Applications to Scientific Computing, R. Grossman, editor, SIAM, Philadelphia, 1989, pages 77-96.
9. R. Grossman and R. G. Larson, Labeled trees and the efficient computation of derivations, Proceedings of 1989 International Symposium on Symbolic and Algebraic Computation, ACM, 1989, pages 74-80.
10. R. Grossman, Querying databases of trajectories of differential equations I: data structures for trajectories, Proceedings of the 23rd Hawaii International Conference on Systems Sciences, IEEE, 1990, pages 18-23.
11. M. W. Bern, D. P. Dobkin, D. Eppstein, and R. Grossman, Visibility with a moving point of view (extended abstract), Proceedings of the First Annual ACM-SIAM Symposium on Discrete Algorithms, SIAM, 1990, pp. 107-117.
12. R. Grossman, Querying databases of trajectories of differential equations II: index functions, Fourth NASA Workshop on Computational Control of Flexible Aerospace Systems, NASA Conference Proceedings, Number 10065, Part 1, L. W. Taylor, Jr., editor, NASA Langley Research Center, 1991, pp. 35-39.
13. R. Grossman, Using trees to compute approximate solutions of ordinary differential equations exactly, Differential Equations and Computer Algebra M. Singer, editor, Academic Press, New York, 1991, pp. 29-59.
14. P. Crouch, R. Grossman, and R. G. Larson, Computations involving differential operators and their actions on functions, Proceedings of 1991 International Symposium on Symbolic and Algebraic Computation, ACM, 1991, pp. 301-307.
15. A. Baden and R. Grossman, Database computing and high energy physics, Computing in High-Energy Physics 1991, edited by Y. Watase and F. Abe, Universal Academy Press, Inc., Tokyo, 1991, pp. 59-66.
16. R. Grossman and R. G. Larson, The symbolic computation of vector field expressions, Algebraic Computing in Control 1991, edited by G. Jacob and F. Lamnabhi-Lagarrigue, Springer-Verlag, Berlin, 1991, pp. 1-10.

17. R. Grossman and D. Radford, A simple construction of bialgebra deformations, *Contemporary Mathematics: Quantum Groups and Deformations*, AMS, pp. 115-117, 1992.
18. P.E. Crouch and R. L. Grossman, The Explicit Computation of Integration Algorithms and First Integrals for Ordinary Differential Equations With Polynomial Coefficients Using Trees, *Proceedings of the 1992 International Symposium on Symbolic and Algebraic Computation*, ACM Press, pp. 89-94.
19. R. L. Grossman and R. G. Larson, Viewing hybrid systems as products of control systems and automata, *Proceedings of the 31st IEEE Conference on Decision and Control*, IEEE Press, 1992, pages 2953-2955.
20. P.E. Crouch, R. Grossman, and Y. Yan, On the numeric integration of dynamic attitude equations, *Proceedings of the 31st IEEE Conference on Decision and Control*, IEEE Press, 1992, pages 1497-1501.
21. R. L. Grossman, D. Lifka, and X. Qin, A proof-of-concept implementation interfacing an object manager to a hierarchical storage system, *Twelfth IEEE Symposium on Mass Storage Systems*, IEEE Press, Los Alamites, 1993, pp. 209-214.
22. E. May, D. Lifka, E. Lusk, L. E. Price, C. T. Day, S. Loken, J. F. MacFarlane, A. Baden R. Grossman, X. Qin, L. Cornell, A. Gauthier, P. Leibold, J. Marstaller, U. Nixdorf, B. Scipioni Requirements for a System to Analyze High Energy Physics Events Using Database Computing *Twelfth IEEE Symposium on Mass Storage Systems*, IEEE Press, Los Alamites, 1993, pp. 31-36.
23. C. T. Day, S. Loken, J. F. MacFarlane, E. May, D. Lifka, E. Lusk, L. E. Price, A. Baden, R. Grossman, X. Qin, L. Cornell, P. Leibold, D. Liu, U. Nixdorf, B. Scipioni, T. Song, Database Computing in HEP – Progress Report, *Proceedings of the International Conference on Computing in High Energy Physics '92*, C. Verkerk and W. Wojcik, editors, CERN-Service d'Information Scientifique, 1992, ISSN 0007-8328, pp. 557-560.
24. R. L. Grossman and R. L. Larson, Some Remarks About Flows in Hybrid Systems, in R. L. Grossman, A. Nerode, A. P. Ravn, and H. Rischel, editors, *Hybrid Systems*, Lecture Notes in Computer Science, Volume 736, Springer-Verlag, New York, 1993, pp. 357-365.
25. R. L. Grossman, D. Valsamis and X. Qin, Persistent stores and hybrid systems, *Proceedings of the 32st IEEE Conference on Decision and Control*, IEEE Press, 1993, pp. 2298-2302.
26. R. L. Grossman, Working With Object Stores of Events Using PTool, 1993 Cern Summer School in Computing, C. E. Vandoni and C. Verkerk, editors, CERN-Service d'Information Scientifique 94-06, pages 66-97, 1994.
27. R. L. Grossman and X. Qin, Ptool: a scalable persistent object manager, *Proceedings of SIGMOD 94*, ACM, 1994, page 510.
28. R. L. Grossman, A. Sundaram, H. Ramamoorthy, M. Wu, S. Hogan, J. Shuler and O. Wolfson, Viewing the U.S. Government Budget as a Digital Library, *Proceedings of Digital Libraries 1994: Conference on the Theory and Practice of Digital Libraries*, ACM, 1994.
29. R. L. Grossman, W. Sluis, and W. Shadwick, On Nonlinear Normal Forms, *Proceedings of the 33st IEEE Conference on Decision and Control*, IEEE Press, 1994.
30. D. R. Quarrie, C. T. Day, S. Loken, J. F. Macfarlane, D. Lifka, E. Lusk, D. Malon, E. May, L. E. Price, L. Cornell, A. Gauthier, P. Liebold, J. Hilgart, D. Liu, J. Marstaller, U. Nixdorf, T. Song, R. Grossman, X. Qin, D. Valsamis, M. Wu, W. Xu, A. Baden, The PASS Project: A Progress Report, *Proceedings of the Conference on Computing in High Energy Physics 1994*, edited by S. C. Loken, pages 229-232, 1995.

31. D. R. Quarrie, C. T. Day, S. Loken, J. F. Macfarlane, D. Lifka, E. Lusk, D. Malon, E. May, L. E. Price, L. Cornell, A. Gauthier, P. Liebold, J. Hilgart, D. Liu, J. Marsteller, U. Nixdorf, T. Song, R. Grossman, X. Qin, D. Valsamis, M. Wu, W. Xu, A. Baden, The PASS Project Architectural Model, Proceedings of the Conference on Computing in High Energy Physics 1994, edited by S. C. Loken, pages 233-235, 1995.
32. E. N. May, D. Lifka, D. Malon, L. E. Price L. Cornell, A. Gauthier, J. Marsteller, S. Mestad, U. Nixdorf R. Grossman, X. Qin, D. Valsamis, M. Wu, W. Xu A Demonstration of a Multi-level Object Store and its Application to the Analysis of High Energy Physics Data, Proceedings of the Conference on Computing in High Energy Physics 1994, edited by S. C. Loken, pages 236-238, 1995.
33. D. Malon, D. Lifka, E. May R. Grossman, X. Qin, W. Xu Parallel Query Processing for Event Store Data, Proceedings of the Conference on Computing in High Energy Physics 1994, edited by S. C. Loken, pp. 239-240, 1995.
34. R. L. Grossman, N. Araujo, X. Qin, and W. Xu, Managing physical folios of objects between nodes, Persistent Object Systems (Proceedings of the Sixth International Workshop on Persistent Object Systems), M. P. Atkinson, V. Benzaken and D. Maier, editors, Springer-Verlag and British Computer Society, 1995, pages 217-231.
35. R. L. Grossman, X. Qin, D. Valsamis, W. Xu, C. T. Day, S. Loken, J. F. MacFarlane, D. Quarrie, E. May, D. Lifka, D. Malon, L. Price, Analyzing High Energy Physics Data Using Databases: A Case Study, Proceedings of the Seventh International Working Conference on Scientific and Statistical Database Management, IEEE Press, 1994, pages 283-286.
36. R. L. Grossman, A. Nerode, and W. Kohn, Nonlinear Systems, Automata, and Agents: Managing their Symbolic Data Using Light Weight Persistent Object Managers, International Symposium on Fifth Generation Computer Systems, 1994: Workshop on Heterogeneous Cooperative Knowledge-Bases, Kazumasa Yokota, editor, ICOT, pages 65-74.
37. J. Leigh, C. A. Vasilakis, T. A. DeFanti, R. Grossman, C. Assad, B. Rasnow, A. Protopappas, E. DeSchutter, J. M. Bower, Virtual Reality in Computational Neuroscience, Virtual Reality Applications, edited by R. Earnshaw, J. A. Vince and H. Jones, Academic Press, London, 1995, pages 293-306.
38. R. L. Grossman D. Hanley, and X. Qin Caching and migration for physical collections of objects: Interfacing persistent object stores and hierarchical storage systems, in Proceedings of the 14th IEEE Computer Society Mass Storage Systems Symposium, S. Coleman, editor, IEEE, 1995, pages 127-135.
39. R. L. Grossman, D. Hanley, and X. Qin, PTool: A Light Weight Persistent Object Manager, Proceedings of SIGMOD 95, ACM, 1995, p. 488.
40. R. L. Grossman and M. Sweedler Hybrid Systems and Quantum Automata: Preliminary Announcement, Hybrid Systems II, P. Antsaklis, W. Kohn, A. Nerode, S. Sastry, editors, Springer Lecture Notes in Computer Science, Volume 999, pages 191-201, 1995.
41. M. J. Doffou and R. L. Grossman, The Symbolic Computation of Differential Invariants of Polynomial Vector Field Systems Using Trees, Proceedings of the 1995 International Symposium on Symbolic and Algebraic Computation, A. H. M. Levelt, editor, ACM, 1995, pages 26-31.
42. N. Araujo, R. Grossman, D. Hanley, W. Xu, S. Ahn, K. Denisenko, M. Fischler, M. Galli D. Malon and E. May, Some Remarks on Parallel Data Mining Using a Persistent Object Manager, Proceedings of the Conference on Computing in High Energy Physics 1995.

43. S. Bailey, R. Grossman, and D. Hanley, D. Benton and B. Hollebeek, Scalable Digital Libraries of Event Data and the NSCP Meta-Cluster, Proceedings of the Conference on Computing in High Energy Physics 1995.
44. R. L. Grossman and H. V. Poor, Optimization Driven Data Mining and Credit Scoring, in Proceedings of the IEEE/IAFE 1996 Conference on Computational Intelligence for Financial Engineering (CIFEr), IEEE, Piscataway, 1996, pages 104-110.
45. S. Bailey, R. L. Grossman, L. Gu, and D. Hanley, A Data Intensive Approach to Path Planning and Mode Management for Hybrid Systems, in R. Alur, T. A. Henzinger, and E. Sontag, Hybrid Systems III, Proceedings of the DIMACS Workshop on Verification and Control of Hybrid Systems, Springer-Verlag, LNCS 1066, 1996.
46. R. L. Grossman, H. Bodek, D. Northcutt, and H. V. Poor, Data Mining and Tree-based Optimization, Proceedings of the Second International Conference on Knowledge Discovery and Data Mining (KDD 1996), E. Simoudis, J. Han and U. Fayyad, editors, AAAI Press, Menlo Park, California, 1996, pp 323-326.
47. R. L. Grossman, The Terabyte Challenge: An Open, Distributed Testbed for Managing and Mining Massive Data Sets, Proceedings of the 1996 Conference on Supercomputing, IEEE, 1996.
48. R. L. Grossman, S. Bailey and D. Hanley, Data Mining Using Light Weight Object Management in Clustered Computing Environments, Proceedings of the Seventh International Workshop on Persistent Object Stores, Morgan-Kaufmann, San Mateo, 1997, pages 237-249.
49. S. Bailey, A. Goldstein, R. L. Grossman, and D. Hanley, Accessing Warehoused Collections of Objects Through Java, Proceedings of the First International Workshop on Persistence and Java, Sun Microsystems, 1996.
50. S. Bailey and R. L. Grossman, JTool: Accessing Warehoused Collections of Objects with Java, Proceedings of the Second Workshop on Persistence and Java, Sun Microsystems, 1998.
51. R. L. Grossman and S. Bailey, An Overview of Dynamic Classification: Mining Collections of Trajectories (invited paper), 1998 Proceedings of the Section on Physical and Engineering Sciences, American Statistical Association, Alexandria, Virginia, pages 24-28.
52. R. L. Grossman, S. Bailey, A. Ramu, B. Malhi and A. Turinsky, The Preliminary Design of Papyrus: A System for High Performance, Distributed Data Mining over Clusters, in Advances in Distributed and Parallel Knowledge Discovery, H. Kargupta and P. Chan, editors, AAAI Press/The MIT Press, Menlo Park, California, 2000, pages 259-275.
53. R. L. Grossman, S. Bailey, A. Ramu, B. Malhi and H. Sivakumar, A. Turinsky, Papyrus: A System for Data Mining over Local and Wide Area Clusters and Super-Clusters, Proceedings of Supercomputing 1999, IEEE.
54. R. L. Grossman, The Role of QoS in Wide Area Data Mining, Proceedings of the First Internet 2 Joint Applications Engineering QoS Workshop: Enabling Advanced Applications Through QoS, UCAID, 1999, pages 19-21.
55. J. Leigh, A. Johnson, T. DeFanti, S. Bailey, R. L. Grossman, A Methodology for Supporting Collaborative Exploratory Analysis of Massive Data Sets in Tele-Immersive Environments, 8th IEEE International Symposium on High Performance and Distributed Computing, Redondo Beach, California, Aug 3-6, 1999.
56. J. Leigh, A. Johnson, T. DeFanti, S. Bailey, R. L. Grossman, A Tele-Immersive Environment for Collaborative Exploratory Analysis of Massive Data Sets, ASCI 99, pages 3-9, Heijen, the Netherlands, 1999.

57. S. Bailey, E. Creel, R. Grossman, S. Gutti, and H. Sivakumar, A High Performance Implementation of the Data Space Transfer Protocol (DSTP), Large-Scale Parallel Data Mining, M. J. Zaki and C.-T. Ho, editors, Springer-Verlag, Berlin, 2000, pages 55-64.
58. R. L. Grossman and Yike Guo, Parallel Methods for Scaling Data Mining Algorithms to Large Data Sets, Handbook on Data Mining and Knowledge Discovery, Jan M Zytkow, editor, Oxford University Press, 2002, pages 433 - 442.
59. H. Sivakumar, R. Grossman, B. Schiefer, X. Xue, and S. Syed, Performance of DB2 UDB EEE on NT with Virtual Interface Architecture, Lecture Notes in Computer Science: Advances in Database Technology EDBT 2000, 7th International Conference on Extending Database Technology Konstanz, Germany March 2000.
60. H. Sivakumar, S. Bailey, R. L. Grossman, Psockets: The Case for Application-level Network Striping for Data Intensive Applications using High Speed Wide Area Networks, Proceedings of the 2000 ACM/IEEE Conference on Supercomputing (CDROM), IEEE Computer Society, Washington, DC, USA, 2000, page 38.
61. N. Sawant, C. Scharver, J. Leigh, A Johnson, G. Reinhart, E. Creel, S. Batchu, S. Bailey, R. L. Grossman, The Tele-Immersive Data Explorer: A Distributed Architecture for Collaborative Interactive Visualization of Large Data-sets, 4th International Immersive Projection Technology Workshop, Ames, Iowa, June 19-20, 2000.
62. R. L. Grossman and R. Hollebeck, The National Scalable Cluster Project: Three Lessons about High Performance Data Mining and Data Intensive Computing, in Handbook of Massive Data Sets, J. Abello, P. M. Pardalos, and M. G. C. Resende, editors, Kluwer Academic Publishers, 2002.
63. A DataSpace Infrastructure for Astronomical Data, Robert Grossman, Emory Creel, Marco Mazzucco, Roy Williams in R. L. Grossman, C. Kamath, W. Philip Kegelmeye, V. Kumar, and R. Namburu, Data Mining for Scientific and Engineering Applications, Kluwer Academic Publishers, 2001, pages 115-123.
64. Robert Grossman, Mark Hornick, and Gregor Meyer, Emerging Standards and Interfaces in Data Mining, Handbook of Data Mining, Nong Ye, editor, Lawrence Erlbaum Associates, Publishers, Mahwah, New Jersey, 2003, pages 453-459.
65. M. Cornelson, E. Greengrass, R. L. Grossman, R. Karidi, and D. Shnidman, Combining Information Retrieval Algorithms Using Machine Learning, Survey of Text Mining: Clustering, Classification, and Retrieval Michael W. Berry, editor, Springer-Verlag, 2003, pages 159-169.
66. Marco Mazzucco, Asvin Ananthanarayan, Robert L. Grossman, Jorge Levera, and Gokulnath Bhagavantha Rao, Merging Multiple Data Streams on Common Keys over High Performance Networks, Proceedings of the IEEE/ACM SC2002 Conference, 2002, IEEE Computer Society, page 67.
67. R. L. Grossman and R. G. Larson, An Algebraic Approach to Data Mining: Some Examples, Proceedings of the 2002 IEEE International Conference on Data Mining, IEEE Computer Society, Los Alamitos, California, 2002, pages 613-616.
68. Robert L. Grossman, Yunhong Gu, Dave Hanley, Xinwei Hong, Dave Lillethun, Jorge Levera, Joe Mambretti, Marco Mazzucco, and Jeremy Weinberger, Photonic Data Services: Integrating Path, Network and Data Services to Support Next Generation Data Mining Applications, Data Mining: Next Generation Challenges and Future Directions, H. Kargupta, A. Joshi, K. Sivakumar, and Y. Yesha, editors, AAAI Press, 2004.

69. Robert L. Grossman, Yunhong Gu, Dave Hanley, Xinwei Hong, Dave Lillethun, Jorge Levera, Joe Mambretti, Marco Mazzucco, and Jeremy Weinberger, Global Access to Large Distributed Data Sets using Photonic Data Services, Proceedings of the 20th IEEE/11th NASA Goddard Conference on Mass Storage Systems and Technologies (MSST 2003), IEEE Computer Society, Los Alamitos, California, pages 62-66.
70. Thomas A. DeFanti, Jason Leigh, Maxine D. Brown, Daniel J. Sandin, Oliver Yu, Chong Zhang, Rajvikram Singh, Eric He, Javid Alimohideen, Naveen K. Krishnaprasad, Robert Grossman, Marco Mazzucco, Larry Smarr, Mark Ellisman, Phil Papadopoulos, Andrew Chien, John Orcutt, Teleimmersion and Visualization with the OptIPuter, Proceedings of the 12th International Conference on Artificial Reality and Telexistence (ICAT 2002), Ohmsha/IOS Press.
71. R. Grossman, X. Qin, W. Xu, H. Hulen, and T. Tyler, An Architecture for a Scalable, High-Performance Digital Library, 14th IEEE Symposium on Mass Storage Systems, IEEE Press, pages 89-98, 1995.
72. Robert L. Grossman and Dave Northcutt, A Note on Interfacing Object Warehouses and Mass Storage Systems for Data Mining Applications, Proceedings of the Goddard Conference on Mass Storage Systems, 1996.
73. Shitij Mutreja, Stuart Bailey, Robert Grossman, and Dave Hanley, Lightweight Video Service for Multi-Media Digital Libraries, Proceedings of CASCON '95, 1995.
74. Robert Grossman, Donald Hamelberg, Pavan Kasturi, and Bing Liu, Experimental Studies of the Universal Chemical Key (UCK) Algorithm on the NCI Database of Chemical Compounds, Proceedings of the 2003 IEEE Computer Society Bioinformatics Conference (CSB 2003), IEEE Computer Society, Los Alamitos, California, pages 244-250.
75. Bing Liu, Robert L. Grossman and Yanhong Zhai, Mining Data Records in Web Pages, Proceedings of The Ninth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2003), pages 601-606.
76. Robert L. Grossman, Alert Management Systems: A Quick Introduction, in Managing Cyber Threats: Issues, Approaches and Challenges, edited by Vipin Kumar, Jaideep Srivastava and Aleksandar Lazarevic, Springer Science+Business Media, Inc., New York, 2005, pages 281-291, ISBN 0-387-24226-0.
77. R.L. Grossman, Y. Gu, D. Hanley, X. Hong, and G. Rao, Open DMIX - Data Integration and Exploration Services for Data Grids, Data Web and Knowledge Grid Applications, Proceedings of the First International Workshop on Knowledge Grid and Grid Intelligence (KGGI 2003), W. K. Cheung and Y. Ye, editors, pages 16-28.
78. S. Bailey, R. L. Grossman and D. Hanley, Clusters, meta-clusters, and digital libraries: digital libraries for scientific, engineering and medical applications, ACM SIGWEB Newsletter, Volume 4, Number 2, ACM Press, New York, NY, 1995, pages 8-10.
79. Chetan Gupta and Robert L. Grossman, GenIc: A Single Pass Generalized Incremental Algorithm for Clustering, 2004 SIAM International Conference on Data Mining (SDM 04), to appear.
80. Robert L. Grossman and Richard G. Larson, Bialgebras and Realizations, in Hopf Algebras, Jeffrey Bergen, Stefan Catoiu, and William Chin, editors, Marcel Dekker, Inc., New York, 2004, pages 157-166.
81. Robert L. Grossman, Yunhong Gu, Chetan Gupta, David Hanley, Xinwei Hong, and Parthasarathy Krishnaswamy, Open DMIX: High Performance Web Services for Distributed Data Mining, 7th International Workshop on High Performance and Distributed Mining, in association with the Fourth International SIAM Conference on Data Mining, 2004.

82. Jorge Levera, Benjamin Barin, and Robert Grossman, Experimental Studies Using Median Polish Procedures to Reduce Alarm Rates in Data Cubes of Intrusion Data, *Intelligence and Security Informatics for National and Homeland Security*, Hsinchun Chen, Reagan Moore, Daniel Zeng, John Jeavitt, editors, LNCS 3073, Springer Verlag, New York, 2004, pages 482-491.
83. Robert L. Grossman, Dave Hanley, Xinwei Hong and Parthasarathy Krishnaswamy, Using DataSpace to Support Long-Term Stewardship of Remote and Distributed Data, *NASA/IEEE MSST 2004, 12th NASA Goddard/21st IEEE Conference on Mass Storage Systems and Technologies*, 2004, pages 239-244.
84. Yunhong Gu, Xinwei Hong, and Robert Grossman, Experiences in Design and Implementation of a High Performance Transport Protocol, *ACM/IEEE International Conference for High Performance Computing and Communications (SC '04)*, page 22.
85. Andrei L. Turinsky and Robert L. Grossman, A Greedy Algorithm for Selecting Models in Ensembles, *Proceedings 4th IEEE International Conference Data Mining (ICDM 2004)*, Brighton, UK, pages 547-550, IEEE Computer Society Press, 2004.
86. Yunhong Gu, Xinwei Hong and Robert Grossman, An Analysis of AIMD Algorithms with Decreasing Increases, *Proceedings of GridNets 2004*, IEEE Press, 2004.
87. Parthasarathy Krishnaswamy, Stephen G. Eick, Robert L Grossman, Visual Browsing of Remote and Distributed Data, *IEEE Symposium on Information Visualization (INFOVIS'04)*, 2004, page 12.
88. Yunhong Gu and Robert L. Grossman, Optimizing UDP-Based Protocol Implementations, *Proceedings of the Third International Workshop on Protocols for Fast Long-Distance Networks PFLDnet 2005*, 2005.
89. Greeshma Neglur and Robert L. Grossman, Assigning Unique Keys to Chemical Compounds for Data Integration: Some Interesting Counter Examples, *2nd International Workshop on Data Integration in the Life Sciences (DILS 2005)*, La Jolla, July 20-22, 2005.
90. Joseph Bugajski, Robert L. Grossman, Eric Sumner and Tao Zhang, An Event Based Framework for Improving Information Quality That Integrates Baseline Models, Causal Models and Formal Reference Models, *Second International ACM SIGMOD Workshop on Information Quality in Information Systems (IQIS 2005)*, June 17th, Baltimore, Maryland, co-located with ACM SIGMOD/PODS 2005.
91. Robert L. Grossman, Michal Sabala, Javid Alimohideen, Anushka Aanand, John Chaves, John Dillenburg, Steve Eick, Jason Leigh, Peter Nelson, Mike Papka, Doug Rorem, Rick Stevens, Steve Vejckik, Leland Wilkinson, and Pei Zhang, Real Time Change Detection and Alerts from Highway Traffic Data, *ACM/IEEE International Conference for High Performance Computing and Communications (SC '05)*.
92. Yunhong Gu and Robert Grossman, Supporting Configurable Congestion Control in Data Transport Services, *ACM/IEEE International Conference for High Performance Computing and Communications (SC '05)*.
93. Joseph Bugajski, Robert Grossman, Eric Sumner, Tao Zhang, A Methodology for Establishing Information Quality Baselines for Complex, Distributed Systems, *10th International Conference on Information Quality (ICIQ)*, 2005.
94. L. Wilkinson, A. Anand and R. Grossman, Graph-theoretic scagnostics, *Proceedings of the IEEE Information Visualization 2005 (INFOVIS'05)*, pages 157-164.

95. Rajmonda Sulo, Stephen Eick, Robert Grossman, DaVis: A tool for Visualizing Data Quality, Proceedings of the IEEE Information Visualization 2005 (INFOVIS'05).
96. Yong Mao, Yunhong Gu, Jia Chen and Robert L. Grossman, SDCS: Simplified Data Communications in Parallel/Distributed Applications, IEEE International Symposium on Cluster Computing and the Grid (CCGrid06), pages 292-295, 2006.
97. Greeshma Neglur, Robert L. Grossman, Natalia Maltsev, and Clement Yu, Using Term Lists and Inverted Files to Improve Search Speed for Metabolic Pathway Databases, 3rd International Workshop on Data Integration in the Life Sciences 2006 (DILS'06), Lecture Notes in Bioinformatics, Volume 4075, Springer-Verlag, Berlin, 2006, pages 168-184.
98. Yunhong Gu, Robert L. Grossman, Alex Szalay and Ani Thakar, Distributing the Sloan Digital Sky Survey Using UDT and Sector, Proceedings of e-Science 2006.
99. Joseph Bugajski, Robert L. Grossman, Eric Sumner and Steve Vejcik, Monitoring Data Quality for Very High Volume Transaction Systems, Proceedings of the 11th International Conference on Information Quality, 2006.
100. Rajmonda Sulo, Anushka Anand, Leland Wilkinson, Robert Grossman, Stephen Eick, Topographically-Based Real-time Traffic Anomaly Detection in a Metropolitan Highway System, Proceedings of the IEEE Information Visualization 2006 (INFOVIS'06).
101. Joseph M. Bugajski, Robert L. Grossman, and Steve Vejcik, A Service Oriented Architecture Supporting Data Interoperability for Payments Card Processing Systems, Proceedings of the International Conference on Service-Oriented Computing (ICSOC) 2006, Springer Lecture Notes in Computer Science, Volume 4296, 2006, pages 591-600.
102. Yong Mao, Yunhong Gu, Jia Chen, and Robert L. Grossman, FastPara: A High-Level Declarative Data-Parallel Programming Framework on Clusters, Parallel and Distributed Computing and Systems, 2006.
103. Joseph Bugajski, Chris Curry, Robert L. Grossman, David Locke, Steve Vejcik, Detecting Changes in Large Data Sets of Payment Card Data: A Case Study, Proceedings of The Thirteenth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2007), ACM, 2007.
104. G. Caire, Robert L. Grossman and H. Vincent Poor, Wavelet transforms associated with finite cyclic groups, The Twenty-Sixth Asilomar Conference on Signals, Systems and Computers, Volume 1, pages 113 - 119, 1992.
105. Fang Fang, Robert L. Grossman and Ziangjun Liu, An Algorithm for Assigning Unique Keys To Metabolic Pathways, Proceedings of the 2007 IEEE International Conference on Bioinformatics and Biomedicine, pages 374-382, 2007.
106. Yunhong Gu, Robert L. Grossman and Joe Mambretti, A Peer-to-Peer Infrastructure for Distributing Large Scientific Data Sets over Wide Area High-Performance Networks: Experimental Studies Using Wide Area Layer 2 Services, Proceedings of the First International Conference on Networks for Grid Applications (GridNets 2007), ICST, ISBN: 978-963-9799-02-8, 2007.
107. Joseph Bugajski and Robert L. Grossman, An Alert Management Approach to Data Quality: Lessons Learned from the Visa Data Authority Program, Proceedings of the 12th International Conference on Information Quality, (ICIQ 2007).
108. Joseph Bugajski, Chris Curry, Robert L. Grossman, David Locke and Steve Vejcik, Data Quality Models for High Volume Transaction Streams: A Case Study, Proceedings of the Second Workshop on Data Mining Case Studies and Success Stories, ACM 2007.

109. Robert L. Grossman, A Review of Some Analytic Architectures for High Volume Transaction Systems, The 5th International Workshop on Data Mining Standards, Services and Platforms (DM-SSP '07), ACM, 2007, pages 23-28.
110. Chetan Gupta and Robert L. Grossman, Outlier Detection with Streaming Dyadic Decomposition, Proceedings of the 7th Industrial Conference on Data Mining, LNCS Volume 4597, Springer-Verlag, 2007, pages 77-91.
111. David Ferrucci, Robert L. Grossman, Anthony Levas, PMML and UIMA Based Frameworks For Deploying Analytic Applications and Services, Proceedings of the 4th International Workshop on Data Mining Standards, Services and Platforms (DM-SSP 06), ACM, New York, 2006, pages 14-26.
112. Robert L Grossman and Yunhong Gu, Data Mining Using High Performance Clouds: Experimental Studies Using Sector and Sphere, Proceedings of The 14th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2008), ACM, 2008, pages 920-927.
113. Yunhong Gu and Robert Grossman, UDTv4: Improvements in Performance and Usability, Proceedings of GridNets 2008, Springer-Verlag 2008.
114. Yunhong Gu and Robert Grossman, Exploring Data Parallelism and Locality in Wide Area Networks, Proceedings of the Workshop on Many-task Computing on Grids and Supercomputers (MTAGS), IEEE, 2008, pages 1-10.
115. Robert L Grossman, Michal Sabala, Yunhong Gu, Anushka Anand, Matt Handley, Rajmonda Sulo and Lee Wilkinson, Discovering Emergent Behavior from Network Packet Data: Lessons From the Angle Project, in Next Generation Data Mining, edited by Hillol Kargupta, Jiawei Han, Philip S Yu, Rajeev Motwani and Vipin Kumar, CRC Press, Boca Raton, 2009, pages 243-260.
116. Robert Grossman, Yunhong Gu, Michal Sabala, Collin Bennett, Jonathan Seidman and Joe Mambretti, The Open Cloud Testbed: A Wide Area Testbed for Cloud Computing Utilizing High Performance Network Services, GridNets 2009, Springer-Verlag, 2009.
117. Yunhong Gu and Robert L Grossman, Lessons Learned From a Year's Worth of Benchmarks of Large Data Clouds, 2nd Workshop on Many-Task Computing on Grids and Supercomputers (MTAGS 2009), ACM, 2009.
118. Wenxuan Gao, Robert Grossman, Philip Yu, and Yunhong Gu, Why Naive Ensembles Do Not Work in Cloud Computing, Proceedings of the The First Workshop on Large-scale Data Mining: Theory and Applications (LDMTA 2009), 2009.
119. Collin Bennett, Robert L. Grossman, David Locke, Jonathan Seidman and Steve Vejck, Mal-Stone: Towards a Benchmark for Analytics on Large Data Clouds, The 16th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2010), ACM, 2010.
120. Robert L. Grossman, Yunhong Gu, Joe Mambretti, Michal Sabala, Alex Szalay, and Kevin White, An Overview of the Open Science Data Cloud, Proceedings of the 19th ACM International Symposium on High Performance Distributed Computing (HPDC '10), ACM, 2010.

### Books

1. M. Beals, C. Fefferman, R. Grossman, Strictly Pseudoconvex Domains in  $C_n$ , Moscow, 1987, 286 pages, in Russian. Translation of Article 2.
2. R. Grossman, editor, Symbolic Computation: Applications to Scientific Computing, SIAM, Philadelphia, 1989, 185 pages.

3. R. L. Grossman, A. Nerode, A. P. Ravn, and H. Rischel, editors, Hybrid Systems, Lecture Notes in Computer Science, Volume 736, Springer-Verlag, New York, 1993.
4. Yike Guo and Robert Grossman, editors, High Performance Data Mining: Scaling Algorithms, Applications and Systems, Kluwer Academic Publishers, 1999.
5. R. L. Grossman, J. Han and V. Kumar, editors, Proceedings of the SIAM First International Conference on Data Mining (SDM-01), SIAM, 2001, ISBN 0-89871-495-8.
6. Robert L. Grossman, Chandrika Kamath, Philip Kegelmeyer, Vipin Kumar, and Raju R. Namburu, Data Mining for Scientific and Engineering Applications, Kluwer Academic Publishing, 2001. ISBN 1-4020-0033-2.
7. Robert Grossman, Jiawei Han, Vipin Kumar, Heikki Mannila, and Rajeev Motwani, editors, Proceedings of the Second SIAM International Conference on Data Mining, Society for Industrial and Applied Mathematics (SIAM), Philadelphia, 2002.
8. Robert L. Grossman, Roberto Bayardo, Kristin Bennet, and Jaideep Vaidya, editors, Proceedings of the Eleventh ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD-2005), ACM Press, New York, 2005, ISBN 1-59593-135-X.

#### Other Publications

1. Robert Grossman, Simon Kasif, Reagan Moore, David Rocke, and Jeff Ullman, Data Mining Research: Opportunities and Challenges. A Report of three NSF Workshops on Mining Large, Massive, and Distributed Data, <http://www.ncdm.uic.edu/m3d2.htm>, 1998.
2. Haim Bodek, Robert Lee Grossman and Ivan Pulleyn, Detecting Network Intrusions through the Data Mining of Network Packet Data Using the ACT Algorithm, 1997.
3. Robert L. Grossman, Symbolic Computation and Flows of Differential Equations, Second Workshop on Computer Algebra, July 21, 1993, Rio de Janeiro.
4. Andrew Baden and Robert L. Grossman, A Model for Computing at the SCC, SSC Technical Report, June 6, 1990.
5. KDD-2003 Workshop on Data Mining Standards, Services, and Platforms (DM-SSP 03), ACM SIGKDD Explorations, Volume 5, Issue 2, page 197, 2003.
6. Robert L. Grossman and David Radford, Bialgebra Deformations of Certain Universal Enveloping Algebras, Laboratory for Advanced Computing Technical Report, University of Illinois at Chicago, 1991.
7. This technical report is now archaic.
8. R. L. Grossman, S. Mehta and X. Qin, Path planning by querying persistent stores of trajectory segments, Laboratory for Advanced Computing Technical Report Number LAC 93-R3, September, 1992.
9. Jason Leigh, Eric He, and Robert Grossman, Grid Networks and UDT Services, Protocols, and Technologies, in Franco Travostino, Joe Mambretti, and Gigi Karmous-Edwards, editors, Grid Networks: Enabling Grids with Advance Communication Technology, Wiley, 2006, pages 171-184.
10. Robert L. Grossman, Yunhong Gu, Michal Sabala, and Joel J. Mambretti, Real Time, Distributed Detection of Anomalies and Emergent Behavior Using the Angle Algorithm, University of Illinois at Chicago, Laboratory for Advanced Computing, Technical Report, 2006.

11. Robert L. Grossman, Fifth International Workshop on Data Mining Standards, Services, and Platforms, Preface, Proceedings of The Thirteenth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, ACM, 2007.
12. Bennett Bertenthal, Robert Grossman, David Hanley, Mark Hereld, Sarah Kenny, Gina Levow, Michael E. Papka, Steve Porges, Kavithaa Rajavenkateshwaran, Rick Stevens, Thomas Uram, and Wenjun Wu, Social Informatics Data Grid, Third International Conference on e-Social Science October 7-9, 2007, Ann Arbor, Michigan.
13. This technical report is now archaic.
14. Gregory Piatetsky-Shapiro, Robert Grossman, Chabane Djeraba Ronen Feldman, Lise Getoor, Mohammed Zaki Is There A Grand Challenge or X-Prize for Data Mining?, Proceedings of the 12th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, ACM Press, 2006, pages 954 - 956. See also SIGKDD Explorations, Volume 8, Number 2, 2006.
15. Robert L Grossman and Yunhong Gu, On the Varieties of Clouds for Data Intensive Computing, Bulletin of the Technical Committee on Data Engineering, March 2009, Volume 32, Number 1, pages 44-50.
16. John Chaves, Chris Curry, Robert L. Grossman, David Locke and Steve Vejcik, Augustus: the Design and Architecture of a PMML-based Scoring Engine, in Proceedings of the 4th International Workshop on Data Mining Standards, Services and Platforms (DMSSP '06), ACM, New York, NY, 38-46.
17. Robert L. Grossman, What is Analytic Infrastructure and Why Should You Care?, SIGKDD Explorations, July 2009, Volume 11, Issue 1, pages 5-9.