

No.	Year	Title and Authors	Publisher	Category
1.	1975	“Geodetic Orientations of Complete k-Partite Graphs,” L. D. Gassman, R. C. Entringer, J. R. Gilbert, S. A. Lonz, and W. Vucenic	<i>J. Combinatorial Theory</i> , B-19:214-238	Refereed article
2.	1978	“Variations of a Pebble Game on Graphs,” J. R. Gilbert and R. E. Tarjan	Stanford University Computer Science Department STAN-CS-78-661	Technical report
3.	1980	“The Pebbling Problem is Complete in Polynomial Space,” J. R. Gilbert, T. Lengauer, and R. E. Tarjan	<i>SIAM J. Computing</i> , 9:513-524	Refereed article
4.	1980	“Graph Separator Theorems and Sparse Gaussian Elimination,” J. R. Gilbert	Stanford University	Ph.D. Thesis
5.	1980	“A Note on the NP-Completeness of Vertex Elimination on Directed Graphs,” J. R. Gilbert	<i>SIAM J. Algebraic and Discrete Methods</i> , 1:292-294	Refereed article
6.	1982	“Nested Dissection with Partial Pivoting,” J. R. Gilbert and R. Schreiber	<i>Proc. Fairfield Glade Sparse Matrix Symposium</i>	Refereed conference abstract
7.	1984	“A Separator Theorem for Chordal Graphs,” J. R. Gilbert, D. J. Rose, and A. Edenbrandt	<i>SIAM J. Algebraic and Discrete Methods</i> , 5:306-313	Refereed article
8.	1984	“Graph Coloring Using Eigenvalue Decomposition,” B. Aspvall and J. R. Gilbert	<i>SIAM J. Algebraic and Discrete Methods</i> , 5:526-538	Refereed article
9.	1984	“A Separator Theorem for Graphs of Bounded Genus,” J. R. Gilbert, J. P. Hutchison, and R. E. Tarjan	<i>J. Algorithms</i> , 5:391-407	Refereed article
10.	1985	“Wide Quotient Trees for Finite Element Problems,” E. Zmijewski and J. R. Gilbert	Cornell University Computer Science Department 86-673	Technical report
11.	1986	“Predicting Fill for Sparse Orthogonal Factorization,” T. F. Coleman, A. Edenbrandt, and J. R. Gilbert	<i>J. Association for Computing Machinery</i> , 33:517-532	Refereed article
12.	1986	GPLU: Direct solution of general nonsymmetric sparse systems of linear equations, J. R. Gilbert T. Peierls		Software package
13.	1987	“The Analysis of a Nested Dissection Algorithm,” J. R. Gilbert and R. E. Tarjan	<i>Numerische Mathematik</i> , 50:377-404	Refereed article
14.	1987	“Computing a Sparse Basis for the Null Space,” J. R. Gilbert and M. T. Heath	<i>SIAM J. Algebraic and Discrete Methods</i> , 8:446-459	Refereed article
15.	1987	“Literate Programming: Printing Common Words,” D. R. Hanson, J. Gilbert, and C. Van Wyk	<i>Comm. Association for Computing Machinery</i> , 30:593-599	Magazine article
16.	1987	“A Parallel Graph-Partitioning Algorithm for a Message-Passing Multiprocessor,” J. R. Gilbert and E. Zmijewski	<i>International J. Parallel Programming</i> , 16:427-449	Refereed article
17.	1988	“A Parallel Algorithm for Sparse Symbolic Cholesky Factorization on a Multiprocessor,” E. Zmijewski and J. R. Gilbert	<i>Parallel Computing</i> , 7:199-210	Refereed article
18.	1988	“Some Nested Dissection Order is Nearly Optimal,” J. R. Gilbert	<i>Information Processing Letters</i> , 26:325-328	Refereed article
19.	1988	“Sparse Partial Pivoting in Time Proportional to Arithmetic Operations,” J. R. Gilbert and T. Peierls	<i>SIAM J. Scientific and Statistical Computing</i> , 9:862-874	Refereed article

20.	1988	“Parallel Solution of Sparse Linear Systems,” J. R. Gilbert and H. Hafsteinsson	<i>SWAT 88: Proc. First Scandinavian Workshop on Algorithm Theory</i> , 145-153, Springer-Verlag	Refereed conference proceedings
21.	1988	“An Efficient Parallel Sparse Partial Pivoting Algorithm,” J. R. Gilbert	Chr. Michelsen Institute 88/45052-1	Technical report
22.	1990	“SWAT 90: Second Scandinavian Workshop on Algorithm Theory,” ed. J. R. Gilbert and R. Karlsson	Springer-Verlag LNCS 447	Edited proceedings
23.	1990	“Parallel Symbolic Factorization of Sparse Linear Systems,” J. R. Gilbert and H. Hafsteinsson	<i>Parallel Computing</i> , 14:151-162	Refereed article
24.	1991	“Optimal Expression Evaluation for Data Parallel Architectures,” J. R. Gilbert and R. Schreiber	<i>J. Parallel and Distributed Computing</i> , 13:58-64	Refereed article
25.	1991	Sparse Matrices for Matlab: Sparse matrix representations, operations, solvers, and permutations for the Matlab interactive programming environment, J. R. Gilbert, C. Moler, and R. Schreiber		Software licensed to commercial industry
26.	1992	“Sparse Matrices in Matlab: Design and Implementation,” J. R. Gilbert, C. Moler, and R. Schreiber	<i>SIAM J. Matrix Analysis and Applications</i> , 13:333-356	Refereed article
27.	1992	“Optimal Evaluation of Array Expressions on Massively Parallel Machines,” S. Chatterjee, J. R. Gilbert, R. Schreiber, and S. Teng	<i>Proc. 2nd ACM Workshop on Languages, Compilers, and Runtime Environments for Distributed-Memory Multiprocessors</i> , Boulder	Refereed conference proceedings
28.	1992	“Automatic Array Alignment in Data-Parallel Programs,” S. Chatterjee, J. R. Gilbert, R. Schreiber, and S. Teng	<i>Proc. 20th ACM Symposium on Principles of Programming Languages (POPL)</i> , 16-28	Refereed conference proceedings
29.	1992	“Highly Parallel Sparse Cholesky Factorization,” J. R. Gilbert and R. Schreiber	<i>SIAM J. Scientific Computing</i> , 13:1151-1172	Refereed article
30.	1992	“Drawing the Planar Dual,” M. Bern and J. R. Gilbert	<i>Information Processing Letters</i> , 43:7-13	Refereed article
31.	1992	“A Separator-Based Framework for Automated Partitioning and Mapping of Parallel Algorithms for Numerical Solution of PDEs,” E. Schwabe, G. Blueloch, A. Feldmann, O. Ghattas, J. Gilbert, G. Miller, D. O’Halloran, J. Shewchuk, and S. Teng	<i>Proc. First DAGS/PC Symposium</i> , 48-62, 1992	Refereed conference proceedings
32.	1993	“Graph Theory and Sparse Matrix Computation,” ed. A. George, J. R. Gilbert, and J. W. H. Liu	The IMA Volumes in Mathematics and Its Applications 56, Springer-Verlag	Edited book
33.	1993	“Mobile and Replicated Alignment of Arrays in Data-Parallel Programs,” S. Chatterjee, J. R. Gilbert, and R. Schreiber	<i>Proc. Supercomputing 93</i> , IEEE Computer Society Press, 420-429	Refereed conference proceedings
34.	1993	“Elimination Structures for Nonsymmetric Sparse LU Factors,” J. R. Gilbert and J. W. H. Liu	<i>SIAM J. Matrix Analysis and Applications</i> , 14:34-352	Refereed article
35.	1993	“Predicting Structure in Nonsymmetric Sparse Matrix Factorizations,” J. R. Gilbert and E. Ng	In <i>Graph Theory and Sparse Matrix Computation</i> (ed. J. A. George, J. R. Gilbert, and J. W. H. Liu), Springer-Verlag	Book chapter
36.	1994	“Modeling Data-Parallel Programs with the Alignment-Distribution Graph,” S. Chatterjee, J. R. Gilbert, R. Schreiber, and T. Sheffler	<i>J. Programming Languages</i> , 2:227-258	Refereed article

37.	1994	"Array Distribution in Data-Parallel Programs," S. Chatterjee, J. R. Gilbert, R. Schreiber, and T. Sheffler	<i>Proc. 7th Annual Workshop on Languages and Compilers for Parallelism.</i>	Conference paper
38.	1994	"Predicting Structure in Sparse Matrix Computations," J. R. Gilbert	<i>SIAM J. Matrix Analysis and Applications</i> , 15:62-79	Refereed article
39.	1994	"An Efficient Algorithm to Compute Row and Column Counts for Sparse Cholesky Factorization," J. R. Gilbert, E. Ng, and B. Peyton	<i>SIAM J. Matrix Analysis and Applications</i> , 15:1075-1091	Refereed article
40.	1994	"Provably Good Mesh Generation," M. Bern, D. Epstein, and J. R. Gilbert	<i>J. Computer and System Sciences</i> , 48:384-409	Refereed article
41.	1995	"Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing," ed. D. H. Bailey, P. E. Bjørstad, J. R. Gilbert, M. V. Mascagni, R. S. Schreiber, H. D. Simon, V. J. Torczon, and L. T. Watson	SIAM	Edited proceedings
42.	1995	"Generating Local Addresses and Communication Sets for Data-Parallel Programs," J. R. Gilbert, S. Teng, S. Chatterjee, F. J. E. Long, and R. S. Schreiber	US Patent 5,450,313	Patent
43.	1995	"Method of Compilation Optimization Using an n-Dimensional Template for Relocated and Replicated Alignment of Arrays in Data-Parallel Programs for Reduced Data Communication During Execution for Data-Parallel Programs," J. R. Gilbert, S. Chatterjee, and R. S. Schreiber	US Patent 5,475,842	Patent
44.	1995	"Generating Local Addresses and Communication Sets for Data-Parallel Programs," S. Chatterjee, J. R. Gilbert, F. J. E. Long, R. Schreiber, and S. Teng	<i>J. Parallel and Distributed Computing</i> , 26:72-84	Refereed article
45.	1995	"Geometric Spectral Partitioning," T. Chan, J. R. Gilbert, and S. Teng	Xerox Palo Alto Research Center CSL-94-15	Technical report
46.	1995	"Approximating Treewidth, Pathwidth, Frontsize, and Shortest Elimination Tree," H. Bodlaender, H. Hafsteinsson, J. R. Gilbert, and T. Kloks	<i>J. Algorithms</i> , 18:238-255	Refereed article
47.	1995	SuperLU: Direct solution of general nonsymmetric sparse systems of linear equations on hierarchical-memory sequential computers, J. Demmel, S. Eisenstat, J. R. Gilbert, S. Li, and J. Liu		Public-domain software library
48.	1996	"Algorithms for Automatic Alignment of Arrays," S. Chatterjee, J. R. Gilbert, L. Oliker, R. Schreiber, and T. Sheffler	<i>J. Parallel and Distributed Computing</i> , 38:145-157	Refereed article
49.	1996	"Efficient Distribution Analysis Via Graph Contraction," T. J. Sheffler, R. Schreiber, W. Pugh, J. R. Gilbert, and S. Chatterjee	<i>International J. of Parallel Programming</i> , 24:599-620	Refereed article
50.	1996	"Large-Scale Stokesian Dynamics Simulations of Non-Brownian Suspensions," F. E. Torres and J. R. Gilbert	Xerox Research Centre of Canada C9600004	Technical report
51.	1996	"Partitioning Meshes with Lines and Planes," F. Cao, J. R. Gilbert, and S. Teng	Xerox Palo Alto Research Center CSL-96-01	Technical report
52.	1997	"Aspect-Oriented Programming of Sparse Matrix Code," J. Irwin, J. M. Loingtier, J. Gilbert, G. Kiczales, J. Lamping, A. Mendhekar, and T. Shpeisman	<i>Proc. Scientific Computing in Object-Oriented Parallel Environments (ISCOPE)</i> , Springer-Verlag LNCS 1343:249-256	Refereed conference proceedings
53.	1997	"Separators and Structure Prediction in Sparse Orthogonal Factorization," J. R. Gilbert, E. Ng, and B. Peyton	<i>Linear Algebra and Its Applications</i> , 262:83-97	Refereed article
54.	1998	"Tools for Efficient Sparse Matrix Computation," J. R. Gilbert, J. Lamping, A. Mendhekar, and T. Shpeisman	US Patent 5,781,779	Patent

55.	1998	“Geometric Mesh Partitioning: Implementation and Experiments,” J. R. Gilbert, G. L. Miller, and S. Teng	<i>SIAM J. Scientific Computing</i> , 19:20291-2110	Refereed article
56.	1998	SuperLU-MT: Direct solution of general nonsymmetric sparse systems of linear equations on parallel computers, J. Demmel, J. R. Gilbert, and S. Li		Public-domain software library
57.	1999	“Ordered Sparse Accumulator and Its Use in Efficient Sparse Matrix Computation,” J. R. Gilbert, W. W. Pugh Jr., and T. Shpeisman	US Patent 5,983,230	Patent
58.	1999	“A Supernodal Approach to Sparse Partial Pivoting,” J. W. Demmel, S. C. Eisenstat, J. R. Gilbert, X. S. Li, and J. W. H. Liu	<i>SIAM J. Matrix Analysis and Applications</i> , 20:720-755	Refereed article
59.	1999	“An Asynchronous Parallel Supernodal Algorithm for Sparse Gaussian Elimination,” J. W. Demmel, J. R. Gilbert, and X. S. Li	<i>SIAM J. Matrix Analysis and Applications</i> , 20:915-952	Refereed article
60.	1999	“SuperLU User’s Guide,” J. W. Demmel, J. R. Gilbert, and X. S. Li	Lawrence Berkeley National Laboratory LBNL-44289	Technical report
61.	1999	“Toward an Efficient Minimum Degree Code for Symmetric Multiprocessors,” T. Y. Chen, J. R. Gilbert, and S. Toledo	<i>Proc. 9th SIAM Conf. on Parallel Processing for Scientific Computing</i> , 11 pages on CD-ROM	Conference proceedings
62.	1999	“High-Performance Out-of-Core Sparse LU Factorization,” J. R. Gilbert and S. Toledo	<i>Proc. 9th SIAM Conf. on Parallel Processing for Scientific Computing</i> , 10 pages on CD-ROM	Conference proceedings
63.	1999	“Separators in Graphs with Negative and Multiple Vertex Weights,” H. N. Djidjev and J. R. Gilbert	<i>Algorithmica</i> , 23:57-71	Refereed article
64.	2000	“An Assessment of Incomplete-LU Preconditioners for Nonsymmetric Linear Systems,” J. R. Gilbert and S. Toledo	<i>Informatica</i> , 24:409-425	Refereed article
65.	2001	“Computing Row and Column Counts for Sparse QR and LU Factorization,” J. R. Gilbert, X. S. Li, E. G. Ng, and B. W. Peyton	<i>BIT Numerical Mathematics</i> , 41:693-710	Refereed article
66.	2002	“A Note on the Column Elimination Tree,” J. R. Gilbert and L. Grigori	<i>SIAM J. Matrix Analysis and Applications</i> , 25:143-151	Refereed article
67.	2003	“Interactive Supercomputing on the Grid,” J. R. Gilbert, W. Mohiudden, and I. S. Patel	Sparse Days and Grid Computing at St. Girons	Conference poster
68.	2003	“Matlab*P: Interactive Supercomputing,” S. Blair, R. Choy, A. Edelman, J. Gilbert, J. Han, I. Patel, G. Saxena, V. Shah, P. Husbands, J. Kepner, and N. Travinin	<i>Fifth International Congress on Industrial and Applied Mathematics (ICIAM)</i> , Sydney, Australia	Conference abstract
69.	2004	“Interactive Supercomputing on the Grid with Matlab*P,” I. Patel, J. R. Gilbert, and W. Mohiudden	<i>Eleventh SIAM Symp. on Parallel Processing for Scientific Computing</i>	Conference abstract
70.	2004	“Star-P: High Productivity Parallel Computing,” R. Choy, A. Edelman, J. Gilbert, V. Shah, and D. Cheng	<i>Proc. Eighth Annual Workshop on High-Performance Embedded Computing (HPEC)</i>	Conference proceedings
71.	2004	“Sparse Direct Methods Combinatorial Techniques and Their Applications,” J. R. Gilbert and V. Shah	<i>SIAM Annual Meeting</i>	Conference abstract

72.	2004	"Sparse Matrices in Matlab*P: Design and Implementation," V. Shah and J. R. Gilbert	<i>Proc. 11th International Conf. on High-Performance Computing (HiPC)</i> , Springer-Verlag LNCS 3296:144-155	Refereed conference proceedings
73.	2004	"Fast Sorting on a Distributed-Memory Architecture," D. R. Cheng, V. Shah, J. R. Gilbert, and A. Edelman	UCSB and MIT	Technical report
74.	2004	"A Column Approximate Minimum Degree Ordering Algorithm," T. A. Davis, J. R. Gilbert, S. A. Larimore, and E. G. Ng	<i>ACM Trans. Math. Software</i> , 30:353-376	Refereed article
75.	2004	"Algorithm 836: COLAMD," T. A. Davis, J. R. Gilbert, S. A. Larimore, and E. G. Ng	<i>ACM Trans. Math. Software</i> , 30:377-380	Refereed article
76.	2005	Star-P: Sparse matrix representations, operations, and solvers for the Matlab*P / Star-P interactive parallel programming environment, J. R. Gilbert and V. Shah		Software package
77.	2005	"Interactive Tools for Combinatorial Scientific Computing," J. R. Gilbert, P. Husbands, and V. Shah	<i>SIAM Symp. on Computational Science and Engineering</i>	Conference abstract
78.	2005	"Structure Prediction in Sparse LU," L. Grigori and J. R. Gilbert	<i>SIAM Symp. on Computational Science and Engineering</i>	Conference abstract
79.	2005	"Towards a Timed Markov Process Model of Software Development," B. Smith, D. Mizell, J. Gilbert, and V. Shah	<i>Proc. Second International Workshop on Software Engineering for High Performance Computing System Applications</i> , 65-67	Refereed conference proceedings
80.	2005	"An Interactive Approach to Parallel Combinatorial Algorithms with Star-P," J. Gilbert, V. Shah, T. Letsche, S. Reinhardt, and A. Edelman	<i>Proc. Ninth Conf. on High Performance Embedded Computing (HPEC)</i>	Conference proceedings
81.	2005	"Obtaining Bounds on the Two Norm of a Matrix from the Splitting Lemma," D. Chen, J. R. Gilbert, and S. Toledo	<i>Electronic Transactions on Numerical Analysis</i> , 21:28-46	Refereed article
82.	2006	"Support-Graph Preconditioners," M. Bern, J. R. Gilbert, B. Hendrickson, N. Nguyen, and S. Toledo	<i>SIAM J. Matrix Analysis and Applications</i> , 27:930-951	Refereed article
83.	2006	"An Interactive Environment for Combinatorial Supercomputing," J. R. Gilbert and V. Shah	<i>SIAM Annual Meeting</i>	Conference abstract
84.	2006	"Modelling HPC workflows with Timed Markov Models," A. Funk, J. R. Gilbert, D. Mizell, and V. Shah	<i>CTWatch Quarterly</i> , 2(4B):19-26	Refereed article
85.	2006	"Designing Scalable Synthetic Compact Applications for Benchmarking High Productivity Computing Systems," D. A. Bader, K. Madduri, J. R. Gilbert, V. Shah, J. Kepner, T. Meuse, and A. Krishnamurthy	<i>CTWatch Quarterly</i> , 2(4B):41-51	Refereed article
86.	2007	"High Performance Graph Algorithms from Parallel Sparse Matrices," J. R. Gilbert, S. Reinhardt, and V. Shah	<i>State of the Art in Scientific Computing, 8th Intl. Workshop, PARA 2006</i> . Springer-Verlag LNCS 4699:260-269, 2007	Refereed conference proceedings
87.	2007	"An Interactive Environment for Numerical and Combinatorial Supercomputing," J. Gilbert, S. Reinhardt, and V. Shah	<i>IEEE Intl. Conf. on Acoustics, Speech, and Signal Processing</i>	Conference abstract
88.	2008	"A Unified Framework for Numerical and Combinatorial Computing," J. R. Gilbert, V. B. Shah, and S. Reinhardt	<i>IEEE Computing in Science and Engineering</i> , 10(2):20-25	Refereed article

89.	2008	“Interactive Data Exploration with Star-P,” V. Shah, J. R. Gilbert, and S. Reinhardt	<i>SIAM Conference on Parallel Processing for Scientific Computing</i>	Conference abstract
90.	2008	“Parallel Primitives for Computation with Large Graphs,” A. Buluc and J. R. Gilbert	<i>SIAM Conference on Parallel Processing for Scientific Computing</i>	Conference abstract
91.	2008	“Measuring Productivity in a Graduate Parallel Computing Course,” J. R. Gilbert, V. Aggarwal, I. Patel, and V. Shah	<i>SIAM Conference on Parallel Processing for Scientific Computing</i>	Conference abstract
92.	2008	“On the Representation and Multiplication of Hypersparse Matrices,” A. Buluc and J. R. Gilbert	<i>Proc. 22nd IEEE Intl. Parallel and Distributed Processing Symposium: 11 pages on CD-ROM</i>	Refereed conference proceedings
93.	2008	“An Empirical Study of the Performance and Productivity of Two Parallel Programming Models,” I. Patel and J. R. Gilbert	<i>Proc. 13th Intl. Workshop on High-Level Parallel Programming Models and Supportive Environments (HIPS2008): 7 pages on CD-ROM</i>	Refereed conference proceedings
94.	2008	“Distributed Sparse Matrices for Very High Level Languages,” J. R. Gilbert, S. Reinhardt, and V. B. Shah	<i>Advances in Computers 72:225-252, Elsevier</i>	Book chapter
95.	2008	“Challenges and Advances in Parallel Sparse Matrix-Matrix Multiplication,” A. Buluc and J. R. Gilbert	<i>37th Intl. Conf. on Parallel Processing (ICPP-08), 503-510</i>	Refereed conference proceedings
96.	2008	“Symbolic and Exact Structure Prediction for Sparse Gaussian Elimination with Partial Pivoting”, M. Cosnard, J. R. Gilbert, and L. Grigori	<i>SIAM. J. Matrix Anal. & Appl. 30:4, 1520-1545</i>	Refereed article
97.	2008	“A pilot study to compare programming effort for two parallel programming models,” L. Hochstein, V. R. Basili, U. Vishkin, and J. Gilbert	<i>J. Systems and Software 81:11, pp. 1920-1930</i>	Refereed article
98.	2008	“Gaussian Elimination Based Algorithms on the GPU,” A. Buluc, C. Budak, and J. R. Gilbert	<i>Proc. 5th Intl. Workshop on Parallel Matrix Algorithms and Applications (PMAA'08)</i>	Conference abstract
99.	2009	“Parallel Sparse GEMM,” A. Buluc and J. R. Gilbert	<i>Dagstuhl Workshop on Combinatorial Scientific Computing</i>	Conference poster
100.	2008	“Parallel Modeling of Fish Interaction,” L. Youseff, A. Barbaro, P. Trethewey, B. Birnir, and J. R. Gilbert	<i>Proc. 11th IEEE Intl. Conf. on Computational Science and Engineering (CSE'08): pp. 234-241</i>	Refereed conference proceedings
101.	2009	“High-Performance Computation for Path Problems in Graphs,” A. Buluc and J. R. Gilbert	<i>SIAM Conference on Dynamical Systems</i>	Conference abstract
102.	2009	“Parallel Combinatorial BLAS and Applications in Graph Computation,” A. Buluc and J. R. Gilbert	<i>SIAM Annual Meeting</i>	Conference abstract
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B1.	2009	“Sparse Matrix Representation and Implementation,” A. Buluc, J. R. Gilbert, and V. Shah	<i>SIAM Fundamentals of Algorithms: Graph Algorithms in the Language of Linear Algebra</i> , in press	Book chapter
C1.	2009	“Solving Path Problems on the GPU,” A. Buluc, J. R. Gilbert, and C. Budak	Submitted to <i>Parallel Computing</i>	Refereed article