Ilse Cf Ipsen

List of Publications by Year
in descending order

35 papers	812 citations	566801 15 h-index	500791 28 g-index
36 all docs	36 docs citations	36 times ranked	527 citing authors

#	ARTICLE	IF	CITATIONS
1	A Note on Preconditioning Nonsymmetric Matrices. SIAM Journal of Scientific Computing, 2001, 23, 1050-1051.	1.3	123
2	Relative Perturbation Techniques for Singular Value Problems. SIAM Journal on Numerical Analysis, 1995, 32, 1972-1988.	1.1	76
3	PageRank Computation, with Special Attention to Dangling Nodes. SIAM Journal on Matrix Analysis and Applications, 2008, 29, 1281-1296.	0.7	59
4	Complexity of dense-linear-system solution on a multiprocessor ring. Linear Algebra and Its Applications, 1986, 77, 205-239.	0.4	55
5	Ergodicity Coefficients Defined by Vector Norms. SIAM Journal on Matrix Analysis and Applications, 2011, 32, 153-200.	0.7	51
6	Convergence Analysis of a PageRank Updating Algorithm by Langville and Meyer. SIAM Journal on Matrix Analysis and Applications, 2006, 27, 952-967.	0.7	49
7	Perturbation Bounds for Determinants and Characteristic Polynomials. SIAM Journal on Matrix Analysis and Applications, 2008, 30, 762-776.	0.7	49
8	Refined Perturbation Bounds for Eigenvalues of Hermitian and Non-Hermitian Matrices. SIAM Journal on Matrix Analysis and Applications, 2009, 31, 40-53.	0.7	43
9	Parallel solution of symmetric positive definite systems with hyperbolic rotations. Linear Algebra and Its Applications, 1986, 77, 75-111.	0.4	37
10	Rank-Deficient Nonlinear Least Squares Problems and Subset Selection. SIAM Journal on Numerical Analysis, 2011, 49, 1244-1266.	1.1	31
11	Ordinal Ranking for Google's PageRank. SIAM Journal on Matrix Analysis and Applications, 2009, 30, 1677-1696.	0.7	27
12	Randomized Approximation of the Gram Matrix: Exact Computation and Probabilistic Bounds. SIAM Journal on Matrix Analysis and Applications, 2015, 36, 110-137.	0.7	20
13	Importance Sampling for a Monte Carlo Matrix Multiplication Algorithm, with Application to Information Retrieval. SIAM Journal of Scientific Computing, 2011, 33, 1689-1706.	1.3	19
14	The Effect of Coherence on Sampling from Matrices with Orthonormal Columns, and Preconditioned Least Squares Problems. SIAM Journal on Matrix Analysis and Applications, 2014, 35, 1490-1520.	0.7	18
15	Structural Convergence Results for Approximation of Dominant Subspaces from Block Krylov Spaces. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 567-586.	0.7	18
16	An overview of relative $\sin\tilde{\Theta}$ theorems for invariant subspaces of complex matrices. Journal of Computational and Applied Mathematics, 2000, 123, 131-153.	1.1	16
17	Absolute and relative perturbation bounds for invariant subspaces of matrices. Linear Algebra and Its Applications, 2000, 309, 45-56.	0.4	14
18	Computing Characteristic Polynomials from Eigenvalues. SIAM Journal on Matrix Analysis and Applications, 2011, 32, 90-114.	0.7	14

#	Article	IF	Citations
19	Low-Rank Matrix Approximations Do Not Need a Singular Value Gap. SIAM Journal on Matrix Analysis and Applications, 2019, 40, 299-319.	0.7	13
20	A note on unifying absolute and relative perturbation bounds. Linear Algebra and Its Applications, 2003, 358, 239-253.	0.4	10
21	Probabilistic Error Analysis for Inner Products. SIAM Journal on Matrix Analysis and Applications, 2020, 41, 1726-1741.	0.7	10
22	Singular Value Decomposition With Systolic Arrays. , 1984, , .		9
23	From Bareiss' algorithm to the stable computation of partial correlations. Journal of Computational and Applied Mathematics, 1989, 27, 53-91.	1.1	9
24	A Bayesian Conjugate Gradient Method (with Discussion). Bayesian Analysis, 2019, 14, .	1.6	9
25	Inclusion regions for matrix eigenvalues. Linear Algebra and Its Applications, 2003, 358, 281-291.	0.4	7
26	A Probabilistic Subspace Bound with Application to Active Subspaces. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 1208-1220.	0.7	7
27	Recursive mesh refinement on hypercubes. BIT Numerical Mathematics, 1989, 29, 186-211.	1.0	5
28	Conditioning of Leverage Scores and Computation by QR Decomposition. SIAM Journal on Matrix Analysis and Applications, 2015, 36, 1143-1163.	0.7	5
29	The Impact of Parallel Architectures on The Solution of Eigenvalue Problems. North-Holland Mathematics Studies, 1986, , 37-49.	0.2	4
30	Some Remarks on the Generalised Bareiss and Levinson Algorithms. , 1991, , 189-214.		2
31	Communicating Applied Mathematics: Four Examples. SIAM Review, 2006, 48, 359-389.	4.2	1
32	Research Spotlights. SIAM Review, 2012, 54, 119-119.	4.2	1
33	Multiplicative perturbation bounds for multivariate multiple linear regression in Schatten p-norms. Linear Algebra and Its Applications, 2021, 624, 87-102.	0.4	1
34	Preface to the 14th ILAS Conference Proceedings Shanghai 2007. Linear Algebra and Its Applications, 2009, 430, 1441.	0.4	0
35	From Bareiss' algorithm to the stable computation of partial correlations* *The work presented in this paper was supported by the Office of Naval Research under contracts N000014-86-K-0310 and N00014-85-K-0461, and by the Army Research Office under contract DAAL03-86-K-0158.. Advances in Parallel Computing, 1990, 1, 53-91.	0.3	0