Zlatko Drmac

List of Publications by Year
in descending order

39	1,625	448610 19	371746 37
papers	citations	h-index	g-index

40	40	40	818
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical methods for accurate computation of the eigenvalues of Hermitian matrices and the singular values of general matrices. SeMA Journal, 2021, 78, 53-92.	1.0	1
2	Identification of Nonlinear Systems Using the Infinitesimal Generator of the Koopman Semigroupâ€"A Numerical Implementation of the Mauroyâ€"Goncalves Method. Mathematics, 2021, 9, 2075.	1.1	3
3	Stability of Discrete Empirical Interpolation and Gappy Proper Orthogonal Decomposition with Randomized and Deterministic Sampling Points. SIAM Journal of Scientific Computing, 2020, 42, A2837-A2864.	1.3	37
4	On Least Squares Problems with Certain Vandermonde--Khatri--Rao Structure with Applications to DMD. SIAM Journal of Scientific Computing, 2020, 42, A3250-A3284.	1.3	1
5	New Numerical AlgorithmÂfor Deflation of Infinite and Zero Eigenvalues and Full Solution of Quadratic Eigenvalue Problems. ACM Transactions on Mathematical Software, 2020, 46, 1-32.	1.6	2
6	Data Driven Koopman Spectral Analysis in Vandermonde--Cauchy Form via the DFT: Numerical Method and Theoretical Insights. SIAM Journal of Scientific Computing, 2019, 41, A3118-A3151.	1.3	8
7	Algorithm 977. ACM Transactions on Mathematical Software, 2018, 44, 1-30.	1.6	5
8	The Discrete Empirical Interpolation Method: Canonical Structure and Formulation in Weighted Inner Product Spaces. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 1152-1180.	0.7	23
9	Data Driven Modal Decompositions: Analysis and Enhancements. SIAM Journal of Scientific Computing, 2018, 40, A2253-A2285.	1.3	34
10	A New Selection Operator for the Discrete Empirical Interpolation Method---Improved A Priori Error Bound and Extensions. SIAM Journal of Scientific Computing, 2016, 38, A631-A648.	1.3	190
11	Vector Fitting for Matrix-valued Rational Approximation. SIAM Journal of Scientific Computing, 2015, 37, A2346-A2379.	1.3	34
12	Quadrature-Based Vector Fitting for Discretized $mathcal{H}_2$ Approximation. SIAM Journal of Scientific Computing, 2015, 37, A625-A652.	1.3	61
13	A new framework for implicit restarting of the Krylovâ€"Schur algorithm. Numerical Linear Algebra With Applications, 2015, 22, 220-232.	0.9	2
14	Efficient generalized Hessenberg form and applications. ACM Transactions on Mathematical Software, 2013, 39, 1-19.	1.6	5
15	A contribution to the theory and practice of the block Kogbetliantz method for computing the SVD. BIT Numerical Mathematics, 2012, 52, 827-849.	1.0	8
16	A note on shifted Hessenberg systems and frequency response computation. ACM Transactions on Mathematical Software, 2011, 38, 1-16.	1.6	4
17	A Global Convergence Proof for Cyclic Jacobi Methods with Block Rotations. SIAM Journal on Matrix Analysis and Applications, 2010, 31, 1329-1350.	0.7	16
18	Subspace Gap Residuals for Rayleighâ€"Ritz Approximations. SIAM Journal on Matrix Analysis and Applications, 2009, 31, 54-67.	0.7	8

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19	New Fast and Accurate Jacobi SVD Algorithm. II. SIAM Journal on Matrix Analysis and Applications, 2008, 29, 1343-1362.	0.7	66
20	New Fast and Accurate Jacobi SVD Algorithm. I. SIAM Journal on Matrix Analysis and Applications, 2008, 29, 1322-1342.	0.7	92
21	On the Failure of Rank-Revealing QR Factorization Software -- A Case Study. ACM Transactions on Mathematical Software, 2008, 35, 1-28.	1.6	24
22	A new stable bidiagonal reduction algorithm. Linear Algebra and Its Applications, 2005, 397, 35-84.	0.4	20
23	On Accuracy Properties of One-Sided Bidiagonalization Algorithm and Its Applications. , 2005, , 141-150.		2
24	On Positive Semidefinite Matrices with Known Null Space. SIAM Journal on Matrix Analysis and Applications, 2002, 24, 132-149.	0.7	15
25	<title>Efficient and accurate computation of generalized singular-value decompositions</title>. , 2001, 4474, 285.		0
26	Approximate eigenvectors as preconditioner. Linear Algebra and Its Applications, 2000, 309, 191-215.	0.4	4
27	On Principal Angles between Subspaces of Euclidean Space. SIAM Journal on Matrix Analysis and Applications, 2000, 22, 173-194.	0.7	34
28	New Accurate Algorithms for Singular Value Decomposition of Matrix Triplets. SIAM Journal on Matrix Analysis and Applications, 2000, 21, 1026-1050.	0.7	10
29	A posteriori computation of the singular vectors in a preconditioned Jacobi SVD algorithm. IMA Journal of Numerical Analysis, 1999, 19, 191-213.	1.5	37
30	Computing the singular value decomposition with high relative accuracy. Linear Algebra and Its Applications, 1999, 299, 21-80.	0.4	164
31	Matrices, Vector Spaces, and Information Retrieval. SIAM Review, 1999, 41, 335-362.	4.2	527
32	A Tangent Algorithm for Computing the Generalized Singular Value Decomposition. SIAM Journal on Numerical Analysis, 1998, 35, 1804-1832.	1.1	35
33	Accurate Computation of the Product-Induced Singular Value Decomposition with Applications. SIAM Journal on Numerical Analysis, 1998, 35, 1969-1994.	1.1	30
34	Implementation of Jacobi Rotations for Accurate Singular Value Computation in Floating Point Arithmetic. SIAM Journal of Scientific Computing, 1997, 18, 1200-1222.	1.3	33
35	On Scaled Almost-Diagonal Hermitian Matrix Pairs. SIAM Journal on Matrix Analysis and Applications, 1997, 18, 1000-1012.	0.7	21
36	Relative Residual Bounds For The Eigenvalues of a Hermitian Semidefinite Matrix. SIAM Journal on Matrix Analysis and Applications, 1997, 18, 21-29.	0.7	10

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37	On relative residual bounds for the eigenvalues of a Hermitian matrix. Linear Algebra and Its Applications, 1996, 244, 155-163.	0.4	13
38	On the Perturbation of the Cholesky Factorization. SIAM Journal on Matrix Analysis and Applications, 1994, 15, 1319-1332.	0.7	31
39	On quadratic convergence bounds for theJ-symmetric Jacobi method. Numerische Mathematik, 1993, 64, 147-180.	0.9	15