

Luca Dieci

List of Publications by Year in descending order

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62
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docs citations

62
times ranked

662
citing authors

#	ARTICLE	IF	CITATIONS
1	Takagi Factorization of Matrices Depending on Parameters and Locating Degeneracies of Singular Values. SIAM Journal on Matrix Analysis and Applications, 2022, 43, 1148-1161.	1.4	1
2	Sliding integration with no projection. Applied Numerical Mathematics, 2020, 155, 3-15.	2.1	2
3	Double descent and intermittent color diffusion for landscape exploration. Numerical Algorithms, 2020, 85, 145-169.	1.9	0
4	Coalescing points for eigenvalues of banded matrices depending on parameters with application to banded random matrix functions. Numerical Algorithms, 2019, 80, 1241-1266.	1.9	2
5	A real-valued auction algorithm for optimal transport. Statistical Analysis and Data Mining, 2019, 12, 514-533.	2.8	1
6	The boundary method for semi-discrete optimal transport partitions and Wasserstein distance computation. Journal of Computational and Applied Mathematics, 2019, 353, 318-344.	2.0	8
7	Entropy Dissipation Semi-Discretization Schemes for Fokker-Planck Equations. Journal of Dynamics and Differential Equations, 2019, 31, 765-792.	1.9	7
8	A study of deformation localization in nonlinear elastic square lattices under compression. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170140.	3.4	3
9	The Moments Sliding Vector Field on the Intersection of Two Manifolds. Journal of Dynamics and Differential Equations, 2017, 29, 169-201.	1.9	22
10	On the Inverse of Some Sign Matrices and on the Moments Sliding Vector Field on the Intersection of Several Manifolds: Nodally Attractive Case. Journal of Dynamics and Differential Equations, 2017, 29, 1355-1381.	1.9	3
11	A new model for realistic random perturbations of stochastic oscillators. Journal of Differential Equations, 2016, 261, 2502-2527.	2.2	6
12	Minimum variation solutions for sliding vector fields on the intersection of two surfaces in \mathbb{R}^3 . Journal of Computational and Applied Mathematics, 2016, 292, 732-745.	2.0	2
13	Piecewise smooth systems near a co-dimension 2 discontinuity manifold: Can one say what should happen?. Discrete and Continuous Dynamical Systems - Series S, 2016, 9, 1039-1068.	1.1	7
14	One-sided direct event location techniques in the numerical solution of discontinuous differential systems. BIT Numerical Mathematics, 2015, 55, 987-1003.	2.0	10
15	Hermitian matrices of three parameters: perturbing coalescing eigenvalues and a numerical method. Mathematics of Computation, 2015, 84, 2763-2790.	2.1	0
16	Lyapunov Exponents: Computation. , 2015, , 834-838.		4
17	A comparison of Filippov sliding vector fields in codimension 2. Journal of Computational and Applied Mathematics, 2014, 262, 161-179.	2.0	19
18	Continuous Decompositions and Coalescing Eigenvalues for Matrices Depending on Parameters. Lecture Notes in Mathematics, 2014, , 173-264.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Regularizing Piecewise Smooth Differential Systems: Co-Dimension ≥ 2 Discontinuity Surface. <i>Journal of Dynamics and Differential Equations</i> , 2013, 25, 71-94.	1.9	15
20	Numerical solution of discontinuous differential systems: Approaching the discontinuity surface from one side. <i>Applied Numerical Mathematics</i> , 2013, 67, 98-110.	2.1	18
21	Approximating Coalescing Points for Eigenvalues of Hermitian Matrices of Three Parameters. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2013, 34, 519-541.	1.4	9
22	A survey of numerical methods for IVPs of ODEs with discontinuous right-hand side. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 3967-3991.	2.0	74
23	Hermitian matrices depending on three parameters: Coalescing eigenvalues. <i>Linear Algebra and Its Applications</i> , 2012, 436, 4120-4142.	0.9	10
24	Numerical Techniques for Approximating Lyapunov Exponents and Their Implementation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2011, 6, .	1.2	21
25	Detecting exponential dichotomy on the real line: SVD and QR algorithms. <i>BIT Numerical Mathematics</i> , 2011, 51, 555-579.	2.0	18
26	Sliding motion on discontinuity surfaces of high co-dimension. A construction for selecting a Filippov vector field. <i>Numerische Mathematik</i> , 2011, 117, 779-811.	1.9	50
27	Locating coalescing singular values of large two-parameter matrices. <i>Mathematics and Computers in Simulation</i> , 2011, 81, 996-1005.	4.4	3
28	Exponential dichotomy on the real line: SVD and QR methods. <i>Journal of Differential Equations</i> , 2010, 248, 287-308.	2.2	27
29	Sliding Motion in Filippov Differential Systems: Theoretical Results and a Computational Approach. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 2023-2051.	2.3	81
30	Two-Parameter SVD: Coalescing Singular Values and Periodicity. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2009, 31, 375-403.	1.4	13
31	Codes for Approximating Lyapunov Exponents. , 2009, , .		0
32	On Filippov and Utkin Sliding Solution of Discontinuous Systems. , 2009, , .		0
33	Smoothness of Hessenberg and Bidiagonal Forms. <i>Mediterranean Journal of Mathematics</i> , 2008, 5, 21-31.	0.8	1
34	Singular values of two-parameter matrices: an algorithm to accurately find their intersections. <i>Mathematics and Computers in Simulation</i> , 2008, 79, 1255-1269.	4.4	13
35	A geometrical method for the approximation of invariant tori. <i>Journal of Computational and Applied Mathematics</i> , 2008, 216, 388-412.	2.0	8
36	On the Error in QR Integration. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 1166-1189.	2.3	23

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37	Lyapunov and Sacker's Sell Spectral Intervals. Journal of Dynamics and Differential Equations, 2007, 19, 265-293.	1.9	53
38	Perturbation Theory for Approximation of Lyapunov Exponents by QR Methods. Journal of Dynamics and Differential Equations, 2006, 18, 815-840.	1.9	34
39	On the error in computing Lyapunov exponents by QR Methods. Numerische Mathematik, 2005, 101, 619-642.	1.9	38
40	Continuation of Singular Value Decompositions. Mediterranean Journal of Mathematics, 2005, 2, 179-203.	0.8	4
41	Point-to-Periodic and Periodic-to-Periodic Connections. BIT Numerical Mathematics, 2004, 44, 41-62.	2.0	17
42	Lyapunov Spectral Intervals: Theory and Computation. SIAM Journal on Numerical Analysis, 2002, 40, 516-542.	2.3	75
43	Jacobian Free Computation of Lyapunov Exponents. Journal of Dynamics and Differential Equations, 2002, 14, 697-717.	1.9	25
44	Smoothness and Periodicity of Some Matrix Decompositions. SIAM Journal on Matrix Analysis and Applications, 2001, 22, 772-792.	1.4	25
45	Conditioning of the Exponential of a Block Triangular Matrix. Numerical Algorithms, 2001, 28, 137-150.	1.9	9
46	Padé approximation for the exponential of a block triangular matrix. Linear Algebra and Its Applications, 2000, 308, 183-202.	0.9	36
47	On real logarithms of nearby matrices and structured matrix interpolation. Applied Numerical Mathematics, 1999, 29, 145-165.	2.1	8
48	Computation of orthonormal factors for fundamental solution matrices. Numerische Mathematik, 1999, 83, 599-620.	1.9	26
49	On Smooth Decompositions of Matrices. SIAM Journal on Matrix Analysis and Applications, 1999, 20, 800-819.	1.4	149
50	Real hamiltonian logarithm of a symplectic matrix. Linear Algebra and Its Applications, 1998, 281, 227-246.	0.9	7
51	On the Computation of Lyapunov Exponents for Continuous Dynamical Systems. SIAM Journal on Numerical Analysis, 1997, 34, 402-423.	2.3	162
52	Lyapunov-type numbers and torus breakdown: numerical aspects and a case study. Numerical Algorithms, 1997, 14, 79-102.	1.9	13
53	Computational Techniques for Real Logarithms of Matrices. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 570-593.	1.4	56
54	Preserving monotonicity in the numerical solution of Riccati differential equations. Numerische Mathematik, 1996, 74, 35-47.	1.9	14

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55	Computation of Invariant Tori by the Method of Characteristics. SIAM Journal on Numerical Analysis, 1995, 32, 1436-1474.	2.3	49
56	Solution of the Systems Associated with Invariant Tori Approximation. II: Multigrid Methods. SIAM Journal of Scientific Computing, 1994, 15, 1375-1400.	2.8	11
57	Block M-Matrices and Computation of Invariant Tori. SIAM Journal on Scientific and Statistical Computing, 1992, 13, 885-903.	1.5	16
58	Numerical Calculation of Invariant Tori. SIAM Journal on Scientific and Statistical Computing, 1991, 12, 607-647.	1.5	59
59	Decompositions and coalescing eigenvalues of symmetric definite pencils depending on parameters. Numerical Algorithms, 0, , .	1.9	0