Jorge Sastre-MartÃ-nez

List of Publications by Year
in descending order

47 papers	578 citations	840119 11 h-index	676716 22 g-index
48 all docs	48 docs citations	48 times ranked	347 citing authors

#	Article	IF	Citations
1	Two Taylor Algorithms for Computing the Action of the Matrix Exponential on a Vector. Algorithms, 2022, 15, 48.	1.2	2
2	Soundcool: A Business Model for Cultural Industries Born Out of a Research Project. SpringerBriefs in Economics, 2021, , 41-49.	0.1	0
3	Advances in the Approximation of the Matrix Hyperbolic Tangent. Mathematics, 2021, 9, 1219.	1.1	7
4	Efficient Evaluation of Matrix Polynomials beyond the Patersonâ€“Stockmeyer Method. Mathematics, 2021, 9, 1600.	1.1	2
5	An Improved Taylor Algorithm for Computing the Matrix Logarithm. Mathematics, 2021, 9, 2018.	1.1	2
6	Simulation of harmonic oscillators on the lattice. Mathematical Methods in the Applied Sciences, 2020, 43, 8237-8252.	1.2	0
7	An efficient and accurate algorithm for computing the matrix cosine based on new Hermite approximations. Journal of Computational and Applied Mathematics, 2019, 348, 1-13.	1.1	5
8	Boosting the computation of the matrix exponential. Applied Mathematics and Computation, 2019, 340, 206-220.	1.4	16
9	Fast Taylor polynomial evaluation for the computation of the matrix cosine. Journal of Computational and Applied Mathematics, 2019, 354, 641-650.	1.1	7
10	Computing matrix trigonometric functions with GPUs through Matlab. Journal of Supercomputing, 2019, 75, 1227-1240.	2.4	4
11	Software for Interactive and Collaborative Creation in the Classroom and Beyond: An Overview of the Soundcool Software. Computer Music Journal, 2019, 43, 12-24.	0.3	7
12	A new efficient and accurate spline algorithm for the matrix exponential computation. Journal of Computational and Applied Mathematics, 2018, 337, 354-365.	1.1	6
13	Efficient evaluation of matrix polynomials. Linear Algebra and Its Applications, 2018, 539, 229-250.	0.4	18
14	Soundcool Project: Collaborative Music Creation. Advances in Intelligent Systems and Computing, 2018, , 416-420.	0.5	1
15	Efficient and accurate algorithms for computing matrix trigonometric functions. Journal of Computational and Applied Mathematics, 2017, 309, 325-332.	1.1	10
16	Two algorithms for computing the matrix cosine function. Applied Mathematics and Computation, 2017, 312, 66-77.	1.4	11
17	Solving engineering models using hyperbolic matrix functions. Applied Mathematical Modelling, 2016, 40, 2837-2844.	2.2	9
18	High performance computing of the matrix exponential. Journal of Computational and Applied Mathematics, 2016, 291, 370-379.	1.1	19

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19	New Scaling-Squaring Taylor Algorithms for Computing the Matrix Exponential. SIAM Journal of Scientific Computing, 2015, 37, A439-A455.	1.3	24
20	Accurate and efficient matrix exponential computation. International Journal of Computer Mathematics, 2014, 91, 97-112.	1.0	13
21	Computing Hyperbolic Matrix Functions Using Orthogonal Matrix Polynomials. Mathematics in Industry, 2014, , 403-407.	0.1	1
22	New Technologies for Music Education. , 2013, , .		11
23	Computing matrix functions arising in engineering models with orthogonal matrix polynomials. Mathematical and Computer Modelling, 2013, 57, 1738-1743.	2.0	11
24	Efficient computation of the matrix cosine. Applied Mathematics and Computation, 2013, 219, 7575-7585.	1.4	13
25	Efficient mixed rational and polynomial approximation of matrix functions. Applied Mathematics and Computation, 2012, 218, 11938-11946.	1.4	4
26	Study of the Interference Affecting the Performance of the Theremin. International Journal of Antennas and Propagation, 2012, 2012, 1-9.	0.7	4
27	Approximating and computing nonlinear matrix differential models. Mathematical and Computer Modelling, 2012, 55, 2012-2022.	2.0	8
28	Accurate matrix exponential computation to solve coupled differential models in engineering. Mathematical and Computer Modelling, 2011, 54, 1835-1840.	2.0	19
29	Application of Laguerre matrix polynomials to the numerical inversion of Laplace transforms of matrix functions. Applied Mathematics Letters, 2011, 24, 1527-1532.	1.5	11
30	Efficient orthogonal matrix polynomial based method for computing matrix exponential. Applied Mathematics and Computation, 2011, 217, 6451-6463.	1.4	22
31	Improvement on the bound of Hermite matrix polynomials. Linear Algebra and Its Applications, 2011, 434, 1910-1919.	0.4	5
32	Precise eye localization using HOG descriptors. Machine Vision and Applications, 2010, 22, 471.	1.7	11
33	Content-Based Dynamic Threshold Method for Real-Time Keyframe Selecting. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 982-993.	5.6	7
34	Advances in Video Coding for Broadcast Applications. International Journal of Digital Multimedia Broadcasting, 2009, 2009, 1-2.	0.4	0
35	Variable frame rate and gop size H.264 rate control for mobile communications. , 2009, , .		4
36	Computing matrix functions solving coupled differential models. Mathematical and Computer Modelling, 2009, 50, 831-839.	2.0	11

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37	Numerical solutions of second-order matrix models using cubic-matrix splines. Computers and Mathematics With Applications, 2008, 56, 2561-2571.	1.4	8
38	Face recognition using HOGâ€“EBGM. Pattern Recognition Letters, 2008, 29, 1537-1543.	2.6	177
39	HOG-EBGM vs. Gabor-EBGM. , 2008, , .		9
40	Differential effects of an acute bout of passive stretching on maximal voluntary torque and the rate of torque development of the calf muscle-tendon unit. Isokinetics and Exercise Science, 2007, 15, 11-17.	0.2	12
41	On the asymptotics of Laguerre matrix polynomials for large <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	1.5	9
42	Laguerre matrix polynomial series expansion: Theory and computer applications. Mathematical and Computer Modelling, 2006, 44, 1025-1043.	2.0	9
43	Asymptotics of the modified bessel and the incomplete gamma matrix functions. Applied Mathematics Letters, 2003, 16, 815-820.	1.5	30
44	Asymptotic expressions of certain type of matrix integrals. Applied Mathematics Letters, 2001, 14, 21-26.	1.5	3
45	The growth of laguerre matrix polynomials on bounded intervals. Applied Mathematics Letters, 2000, 13, 21-26.	1.5	13
46	Motion vector size-compensation based method for very low bit-rate video coding. IEEE Transactions on Circuits and Systems for Video Technology, 2000, 10, 1192-1197.	5.6	3
47	Improved Huffman code tables for H.263/H.263+ based video compression applications. , 0, , .		0