

# Jorge Sastre-Martínez

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Face recognition using HOG&EAGBGM. Pattern Recognition Letters, 2008, 29, 1537-1543.	2.6	177
2	Asymptotics of the modified bessel and the incomplete gamma matrix functions. Applied Mathematics Letters, 2003, 16, 815-820.	1.5	30
3	New Scaling-Squaring Taylor Algorithms for Computing the Matrix Exponential. SIAM Journal of Scientific Computing, 2015, 37, A439-A455.	1.3	24
4	Efficient orthogonal matrix polynomial based method for computing matrix exponential. Applied Mathematics and Computation, 2011, 217, 6451-6463.	1.4	22
5	Accurate matrix exponential computation to solve coupled differential models in engineering. Mathematical and Computer Modelling, 2011, 54, 1835-1840.	2.0	19
6	High performance computing of the matrix exponential. Journal of Computational and Applied Mathematics, 2016, 291, 370-379.	1.1	19
7	Efficient evaluation of matrix polynomials. Linear Algebra and Its Applications, 2018, 539, 229-250.	0.4	18
8	Boosting the computation of the matrix exponential. Applied Mathematics and Computation, 2019, 340, 206-220.	1.4	16
9	The growth of laguerre matrix polynomials on bounded intervals. Applied Mathematics Letters, 2000, 13, 21-26.	1.5	13
10	Efficient computation of the matrix cosine. Applied Mathematics and Computation, 2013, 219, 7575-7585.	1.4	13
11	Accurate and efficient matrix exponential computation. International Journal of Computer Mathematics, 2014, 91, 97-112.	1.0	13
12	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
13	Computing matrix functions solving coupled differential models. Mathematical and Computer Modelling, 2009, 50, 831-839.	2.0	11
14	Precise eye localization using HOG descriptors. Machine Vision and Applications, 2010, 22, 471.	1.7	11
15	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
16	New Technologies for Music Education. , 2013, , .		11
17	Computing matrix functions arising in engineering models with orthogonal matrix polynomials. Mathematical and Computer Modelling, 2013, 57, 1738-1743.	2.0	11
18	Two algorithms for computing the matrix cosine function. Applied Mathematics and Computation, 2017, 312, 66-77.	1.4	11

#	ARTICLE	IF	CITATIONS
19	Efficient and accurate algorithms for computing matrix trigonometric functions. Journal of Computational and Applied Mathematics, 2017, 309, 325-332. On the asymptotics of Laguerre matrix polynomials for large $n$ . $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" xmlns:tbl_info="http://www.elsevier.com/xml/common/table-struct/dtd" \rangle$	1.1	10
20	Laguerre matrix polynomial series expansion: Theory and computer applications. Mathematical and Computer Modelling, 2006, 44, 1025-1043.	1.5	9
21	Laguerre matrix polynomial series expansion: Theory and computer applications. Mathematical and Computer Modelling, 2006, 44, 1025-1043.	2.0	9
22	HOG-EBCM vs. Gabor-EBCM. , 2008, , .		9
23	Solving engineering models using hyperbolic matrix functions. Applied Mathematical Modelling, 2016, 40, 2837-2844.	2.2	9
24	Numerical solutions of second-order matrix models using cubic-matrix splines. Computers and Mathematics With Applications, 2008, 56, 2561-2571.	1.4	8
25	Approximating and computing nonlinear matrix differential models. Mathematical and Computer Modelling, 2012, 55, 2012-2022.	2.0	8
26	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
27	Fast Taylor polynomial evaluation for the computation of the matrix cosine. Journal of Computational and Applied Mathematics, 2019, 354, 641-650.	1.1	7
28	Advances in the Approximation of the Matrix Hyperbolic Tangent. Mathematics, 2021, 9, 1219.	1.1	7
29	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
30	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
31	Improvement on the bound of Hermite matrix polynomials. Linear Algebra and Its Applications, 2011, 434, 1910-1919.	0.4	5
32	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
33	Variable frame rate and gop size H.264 rate control for mobile communications. , 2009, , .		4
34	Efficient mixed rational and polynomial approximation of matrix functions. Applied Mathematics and Computation, 2012, 218, 11938-11946.	1.4	4
35	Study of the Interference Affecting the Performance of the Theremin. International Journal of Antennas and Propagation, 2012, 2012, 1-9.	0.7	4
36	Computing matrix trigonometric functions with GPUs through Matlab. Journal of Supercomputing, 2019, 75, 1227-1240.	2.4	4

#	ARTICLE	IF	CITATIONS
37	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
38	Asymptotic expressions of certain type of matrix integrals. Applied Mathematics Letters, 2001, 14, 21-26.	1.5	3
39	Efficient Evaluation of Matrix Polynomials beyond the Paterson's Stockmeyer Method. Mathematics, 2021, 9, 1600.	1.1	2
40	An Improved Taylor Algorithm for Computing the Matrix Logarithm. Mathematics, 2021, 9, 2018.	1.1	2
41	Two Taylor Algorithms for Computing the Action of the Matrix Exponential on a Vector. Algorithms, 2022, 15, 48.	1.2	2
42	Computing Hyperbolic Matrix Functions Using Orthogonal Matrix Polynomials. Mathematics in Industry, 2014, , 403-407.	0.1	1
43	Soundcool Project: Collaborative Music Creation. Advances in Intelligent Systems and Computing, 2018, , 416-420.	0.5	1
44	Improved Huffman code tables for H.263/H.263+ based video compression applications. , 0, , .		0
45	Advances in Video Coding for Broadcast Applications. International Journal of Digital Multimedia Broadcasting, 2009, 2009, 1-2.	0.4	0
46	Simulation of harmonic oscillators on the lattice. Mathematical Methods in the Applied Sciences, 2020, 43, 8237-8252.	1.2	0
47	Soundcool: A Business Model for Cultural Industries Born Out of a Research Project. SpringerBriefs in Economics, 2021, , 41-49.	0.1	0