

JosÃ© Luis Hueso

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1572679/publications.pdf>

Version: 2024-02-01

53
papers

919
citations

566801

15
h-index

476904

29
g-index

54
all docs

54
docs citations

54
times ranked

367
citing authors

#	ARTICLE	IF	CITATIONS
1	A modified Newton-Jarratt's composition. Numerical Algorithms, 2010, 55, 87-99.	1.1	186
2	Increasing the convergence order of an iterative method for nonlinear systems. Applied Mathematics Letters, 2012, 25, 2369-2374.	1.5	94
3	New modifications of Potra's method with optimal fourth and eighth orders of convergence. Journal of Computational and Applied Mathematics, 2010, 234, 2969-2976.	1.1	65
4	Convergence, efficiency and dynamics of new fourth and sixth order families of iterative methods for nonlinear systems. Journal of Computational and Applied Mathematics, 2015, 275, 412-420.	1.1	53
5	Steffensen type methods for solving nonlinear equations. Journal of Computational and Applied Mathematics, 2012, 236, 3058-3064.	1.1	48
6	Determination of multiple roots of nonlinear equations and applications. Journal of Mathematical Chemistry, 2015, 53, 880-892.	0.7	40
7	A new technique to obtain derivative-free optimal iterative methods for solving nonlinear equations. Journal of Computational and Applied Mathematics, 2013, 252, 95-102.	1.1	34
8	Modified Newton's method for systems of nonlinear equations with singular Jacobian. Journal of Computational and Applied Mathematics, 2009, 224, 77-83.	1.1	33
9	Efficient high-order methods based on golden ratio for nonlinear systems. Applied Mathematics and Computation, 2011, 217, 4548-4556.	1.4	30
10	Enlarging the convergence domain in local convergence studies for iterative methods in Banach spaces. Applied Mathematics and Computation, 2016, 281, 252-265.	1.4	28
11	Generating optimal derivative free iterative methods for nonlinear equations by using polynomial interpolation. Mathematical and Computer Modelling, 2013, 57, 1950-1956.	2.0	26
12	Third and fourth order iterative methods free from second derivative for nonlinear systems. Applied Mathematics and Computation, 2009, 211, 190-197.	1.4	23
13	A family of iterative methods with sixth and seventh order convergence for nonlinear equations. Mathematical and Computer Modelling, 2010, 52, 1490-1496.	2.0	22
14	Local convergence of a parameter based iteration with Hölder continuous derivative in Banach spaces. Calcolo, 2017, 54, 527-539.	0.6	19
15	Semilocal convergence of a family of iterative methods in Banach spaces. Numerical Algorithms, 2014, 67, 365-384.	1.1	16
16	Handling occlusion in optical flow algorithms for object tracking. Computers and Mathematics With Applications, 2008, 56, 733-742.	1.4	15
17	Efficient three-step iterative methods with sixth order convergence for nonlinear equations. Numerical Algorithms, 2010, 53, 485-495.	1.1	15
18	Semilocal Convergence Analysis of an Iteration of Order Five Using Recurrence Relations in Banach Spaces. Mediterranean Journal of Mathematics, 2016, 13, 4219-4235.	0.4	15

#	ARTICLE	IF	CITATIONS
19	Using image recognition to automate video analysis of physical processes. American Journal of Physics, 2003, 71, 1075-1079.	0.3	14
20	Semilocal and local convergence of a fifth order iteration with FrÃchet derivative satisfying HÃlder condition. Applied Mathematics and Computation, 2016, 276, 266-277.	1.4	14
21	Iterative methods for use with nonlinear discrete algebraic models. Mathematical and Computer Modelling, 2010, 52, 1251-1257.	2.0	13
22	Handling occlusion in object tracking in stereoscopic video sequences. Mathematical and Computer Modelling, 2009, 50, 823-830.	2.0	12
23	Third order iterative methods free from second derivative for nonlinear systems. Applied Mathematics and Computation, 2009, 215, 58-65.	1.4	11
24	Accelerated methods of order 2 for systems of nonlinear equations. Journal of Computational and Applied Mathematics, 2010, 233, 2696-2702.	1.1	9
25	New versions of iterative splitting methods for the momentum equation. Journal of Computational and Applied Mathematics, 2017, 309, 359-370.	1.1	9
26	Primary ciliary dyskinesia assessment by means of optical flow analysis of phase-contrast microscopy images. Computerized Medical Imaging and Graphics, 2014, 38, 163-170.	3.5	8
27	Fuzzy control for obstacle detection in stereo video sequences. Mathematical and Computer Modelling, 2011, 54, 1813-1817.	2.0	7
28	Simulation of a cubic-like Chua's oscillator with variable characteristic. Mathematical and Computer Modelling, 2010, 52, 1211-1218.	2.0	6
29	Object tracking with a stereoscopic camera: exploring the three-dimensional space. European Journal of Physics, 2011, 32, 235-243.	0.3	6
30	A Family of Derivative-Free Methods with High Order of Convergence and Its Application to Nonsmooth Equations. Abstract and Applied Analysis, 2012, 2012, 1-15.	0.3	6
31	Experimental analysis of nonlinear oscillations in the undergraduate physics laboratory. European Journal of Physics, 2014, 35, 015005.	0.3	6
32	Adaptive Iterative Splitting Methods for Convection-Diffusion-Reaction Equations. Mathematics, 2020, 8, 302.	1.1	5
33	Comments on "SPICE Model of Photomultiplier Tube Under Different Bias Conditions". IEEE Sensors Journal, 2021, 21, 17395-17402.	2.4	5
34	Optical flow method in phase-contrast microscopy images for the diagnosis of primary ciliary dyskinesia through measurement of ciliary beat frequency. Preliminary results. , 2012, , .		4
35	Convergence and dynamics of improved Chebyshev-Secant-type methods for non differentiable operators. Numerical Algorithms, 2021, 86, 1051-1070.	1.1	4
36	Multipoint efficient iterative methods and the dynamics of Ostrowski's method. International Journal of Computer Mathematics, 2019, 96, 1687-1701.	1.0	3

#	ARTICLE	IF	CITATIONS
37	Ciliary motility activity measurement using a dense optical flow algorithm. , 2013, 2013, 4446-9.		2
38	Derivative free iterative methods for nonlinear systems. Applied Mathematics and Computation, 2015, 259, 955-966.	1.4	2
39	Local convergence of a family of iterative methods for Hammerstein equations. Journal of Mathematical Chemistry, 2016, 54, 1370-1386.	0.7	2
40	A note on some three-step iterative methods for nonlinear equations. Applied Mathematics and Computation, 2008, 202, 252-255.	1.4	1
41	Local Convergence and Dynamics of a Family of Iterative Methods for Multiple Roots of Nonlinear Equations. Vietnam Journal of Mathematics, 2019, 47, 367-386.	0.4	1
42	A Ciliary Motility Index for Activity Measurement in Cell Cultures With Respiratory Syncytial Virus. American Journal of Rhinology and Allergy, 2019, 33, 121-128.	1.0	1
43	An alternative analysis for the local convergence of iterative methods for multiple roots including when the multiplicity is unknown. International Journal of Computer Mathematics, 2020, 97, 312-329.	1.0	1
44	Recurrence relations for a family of iterations assuming Hölder continuous second order Fréchet derivative. International Journal of Nonlinear Sciences and Numerical Simulation, 2020, .	0.4	1
45	Parallel iterative splitting methods: Algorithms and applications. , 2020, , .		1
46	Optimal Derivative-Free Methods for Solving Nonlinear Equations. , 2011, , .		0
47	Accelerated Steffensen-Type Methods for Solving Nonlinear Systems of Equations. , 2011, , .		0
48	Dynamical study while searching equilibrium solutions in N-body problem. Journal of Computational and Applied Mathematics, 2016, 297, 26-40.	1.1	0
49	Multistep High-Order Methods for Nonlinear Equations Using Padé-Like Approximants. Discrete Dynamics in Nature and Society, 2017, 2017, 1-6.	0.5	0
50	A note on the convergence radius of Osada's method under Hölder continuous condition. Applied Mathematics and Computation, 2018, 321, 689-699.	1.4	0
51	Local convergence study for multiple roots. Estimating the multiplicity. AIP Conference Proceedings, 2018, , .	0.3	0
52	Domain of existence for the solution of some IVP's and BVP's by using an efficient ninth-order iterative method. Mathematical Methods in the Applied Sciences, 2020, 43, 7934-7947.	1.2	0
53	El flujo óptico como herramienta para el análisis de fenómenos físicos. Modelling in Science Education and Learning, 0, 6, 97.	0.1	0