

Ahmad Golbabai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8161349/publications.pdf>

Version: 2024-02-01

65
papers

1,620
citations

236833

25
h-index

330025

37
g-index

65
all docs

65
docs citations

65
times ranked

969
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical solution of time-fractional fourth-order reaction-diffusion model arising in composite environments. <i>Applied Mathematical Modelling</i> , 2021, 89, 819-836.	2.2	37
2	Numerical evaluation of the fractional Kleinâ€“Kramers model arising in molecular dynamics. <i>Journal of Computational Physics</i> , 2021, 428, 109983.	1.9	23
3	A Computational Method Based on the Moving Least-Squares Approach for Pricing Double Barrier Options in a Time-Fractional Blackâ€“Scholes Model. <i>Computational Economics</i> , 2020, 55, 119-141.	1.5	47
4	A projection-based recurrent neural network and its application in solving convex quadratic bilevel optimization problems. <i>Neural Computing and Applications</i> , 2020, 32, 3887-3900.	3.2	7
5	Numerical approach for modeling fractal mobile/immobile transport model in porous and fractured media. <i>International Communications in Heat and Mass Transfer</i> , 2020, 111, 104443.	2.9	40
6	Numerical solution of the fractional Rayleighâ€“Stokes model arising in a heated generalized second-grade fluid. <i>Engineering With Computers</i> , 2020, 37, 1751.	3.5	28
7	Numerical analysis of the fractional evolution model for heat flow in materials with memory. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 2627-2637.	3.4	44
8	Numerical investigation of the nonlinear modified anomalous diffusion process. <i>Nonlinear Dynamics</i> , 2019, 97, 2757-2775.	2.7	28
9	Solitary wave solution of the nonlinear KdV-Benjamin-Bona-Mahony-Burgers model via two meshless methods. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	28
10	Numerical analysis of time fractional Blackâ€“Scholes European option pricing model arising in financial market. <i>Computational and Applied Mathematics</i> , 2019, 38, 1.	1.0	68
11	Numerical Investigation of the Time Fractional Mobile-Immobile Advection-Dispersion Model Arising from Solute Transport in Porous Media. <i>International Journal of Applied and Computational Mathematics</i> , 2019, 5, 1.	0.9	31
12	Analysis on the upwind local radial basis functions method to solve convection dominated problems and its application for MHD flow. <i>Engineering Analysis With Boundary Elements</i> , 2019, 100, 59-67.	2.0	3
13	Improved localized radial basis functions with fitting factor for dominated convection-diffusion differential equations. <i>Engineering Analysis With Boundary Elements</i> , 2018, 92, 124-135.	2.0	9
14	Rational Chebyshev collocation method for the similarity solution of two dimensional stagnation point flow. <i>Indian Journal of Pure and Applied Mathematics</i> , 2018, 49, 505-519.	0.3	1
15	A New Stable Local Radial Basis Function Approach for Option Pricing. <i>Computational Economics</i> , 2017, 49, 271-288.	1.5	12
16	A high-performance nonlinear dynamic scheme for the solution of equilibrium constrained optimization problems. <i>Expert Systems With Applications</i> , 2017, 82, 291-300.	4.4	5
17	A new method for evaluating options based on multiquadric RBF-FD method. <i>Applied Mathematics and Computation</i> , 2017, 308, 130-141.	1.4	14
18	Computing a numerical solution of two dimensional non-linear SchrÃ¶dinger equation on complexly shaped domains by RBF based differential quadrature method. <i>Journal of Computational Physics</i> , 2016, 322, 586-602.	1.9	11

#	ARTICLE	IF	CITATIONS
19	Note on Using Radial Basis Functions Method for Solving Nonlinear Integral Equations. Communications in Numerical Analysis, 2016, 2016, 81-91.	0.1	8
20	Stability and convergence of radial basis function finite difference method for the numerical solution of the reaction-diffusion equations. Applied Mathematics and Computation, 2015, 271, 567-580.	1.4	7
21	An efficient method based on operational matrices of Bernoulli polynomials for solving matrix differential equations. Computational and Applied Mathematics, 2015, 34, 159-175.	1.3	13
22	An Improved RBF Method for Solving Variational Problems Arising from Dynamic Economic Models. Computational Economics, 2015, 46, 275-285.	1.5	2
23	On the new variable shape parameter strategies for radial basis functions. Computational and Applied Mathematics, 2015, 34, 691-704.	1.3	34
24	A Highly Accurate Finite Element Method to Price Discrete Double Barrier Options. Computational Economics, 2014, 44, 153-173.	1.5	29
25	Application of the optimal homotopy asymptotic method for solving a strongly nonlinear oscillatory system. Mathematical and Computer Modelling, 2013, 58, 1837-1843.	2.0	18
26	Superconvergence of the finite element solutions of the Black-Scholes equation. Finance Research Letters, 2013, 10, 17-26.	3.4	13
27	Hybrid shape parameter strategy for the RBF approximation of vibrating systems. International Journal of Computer Mathematics, 2012, 89, 2410-2427.	1.0	14
28	A meshfree method based on radial basis functions for the eigenvalues of transient Stokes equations. Engineering Analysis With Boundary Elements, 2012, 36, 1555-1559.	2.0	17
29	Solitary pattern solutions for fractional Zakharov-Kuznetsov equations with fully nonlinear dispersion. Applied Mathematics Letters, 2012, 25, 757-766.	1.5	10
30	Analysis of differential equations of fractional order. Applied Mathematical Modelling, 2012, 36, 4356-4364.	2.2	18
31	Radial basis functions with application to finance: American put option under jump diffusion. Mathematical and Computer Modelling, 2012, 55, 1354-1362.	2.0	44
32	A meshless method for numerical solution of the coupled Schrödinger-KdV equations. Computing (Vienna/New York), 2011, 92, 225-242.	3.2	23
33	Analytical treatment of differential equations with fractional coordinate derivatives. Computers and Mathematics With Applications, 2011, 62, 1003-1012.	1.4	17
34	Fractional calculus - A new approach to the analysis of generalized fourth-order diffusion-wave equations. Computers and Mathematics With Applications, 2011, 61, 2227-2231.	1.4	51
35	Analytical modelling of fractional advection-dispersion equation defined in a bounded space domain. Mathematical and Computer Modelling, 2011, 53, 1708-1718.	2.0	39
36	A numerical method for diffusion-convection equation using high-order difference schemes. Computer Physics Communications, 2010, 181, 1224-1230.	3.0	9

#	ARTICLE	IF	CITATIONS
37	Homotopy analysis method for solving multi-term linear and nonlinear diffusion wave equations of fractional order. <i>Computers and Mathematics With Applications</i> , 2010, 59, 1337-1344.	1.4	58
38	A new domain decomposition algorithm for generalized Burger-Huxley equation based on Chebyshev polynomials and preconditioning. <i>Chaos, Solitons and Fractals</i> , 2009, 39, 849-857.	2.5	56
39	A spectral domain decomposition approach for the generalized Burger-Fisher equation. <i>Chaos, Solitons and Fractals</i> , 2009, 39, 385-392.	2.5	45
40	Solution of non-linear Fredholm integral equations of the first kind using modified homotopy perturbation method. <i>Chaos, Solitons and Fractals</i> , 2009, 39, 2316-2321.	2.5	18
41	Modified homotopy perturbation method for solving non-linear Fredholm integral equations. <i>Chaos, Solitons and Fractals</i> , 2009, 40, 1408-1412.	2.5	22
42	Solving a system of nonlinear integral equations by an RBF network. <i>Computers and Mathematics With Applications</i> , 2009, 57, 1651-1658.	1.4	52
43	Exact and numerical solitary wave solutions of generalized Zakharov equation by the variational iteration method. <i>Chaos, Solitons and Fractals</i> , 2008, 36, 309-313.	2.5	38
44	Modified homotopy perturbation method for solving Fredholm integral equations. <i>Chaos, Solitons and Fractals</i> , 2008, 37, 1528-1537.	2.5	63
45	Easy computational approach to solution of system of linear Fredholm integral equations. <i>Chaos, Solitons and Fractals</i> , 2008, 38, 568-574.	2.5	10
46	Normalized RBF networks: application to a system of integral equations. <i>Physica Scripta</i> , 2008, 78, 015008.	1.2	5
47	A variational iteration method for solving parabolic partial differential equations. <i>Computers and Mathematics With Applications</i> , 2007, 54, 987-992.	1.4	22
48	Construction of a solitary wave solution for the generalized Zakharov equation by a variational iteration method. <i>Computers and Mathematics With Applications</i> , 2007, 54, 1003-1009.	1.4	18
49	Radial basis function networks in the numerical solution of linear integro-differential equations. <i>Applied Mathematics and Computation</i> , 2007, 188, 427-432.	1.4	35
50	A numerical solution for solving system of Fredholm integral equations by using homotopy perturbation method. <i>Applied Mathematics and Computation</i> , 2007, 189, 1921-1928.	1.4	43
51	A numerical solution for non-classical parabolic problem based on Chebyshev spectral collocation method. <i>Applied Mathematics and Computation</i> , 2007, 190, 179-185.	1.4	24
52	Application of He's homotopy perturbation method for nth-order integro-differential equations. <i>Applied Mathematics and Computation</i> , 2007, 190, 1409-1416.	1.4	38
53	A new family of iterative methods for solving system of nonlinear algebraic equations. <i>Applied Mathematics and Computation</i> , 2007, 190, 1717-1722.	1.4	29
54	New iterative methods for nonlinear equations by modified HPM. <i>Applied Mathematics and Computation</i> , 2007, 191, 122-127.	1.4	5

#	ARTICLE	IF	CITATIONS
55	A third-order Newton type method for nonlinear equations based on modified homotopy perturbation method. Applied Mathematics and Computation, 2007, 191, 199-205.	1.4	25
56	Application of homotopy perturbation method for solving eighth-order boundary value problems. Applied Mathematics and Computation, 2007, 191, 334-346.	1.4	61
57	Newton-like iterative methods for solving system of non-linear equations. Applied Mathematics and Computation, 2007, 192, 546-551.	1.4	22
58	Numerical studies on nonlinear Schrödinger equations by spectral collocation method with preconditioning. Journal of Mathematical Analysis and Applications, 2007, 333, 1119-1127.	0.5	38
59	Numerical solution of the second kind integral equations using radial basis function networks. Applied Mathematics and Computation, 2006, 174, 877-883.	1.4	52
60	An iterative solution for the second kind integral equations using radial basis functions. Applied Mathematics and Computation, 2006, 181, 903-907.	1.4	15
61	MULTIPLE SCALE PROCEDURE IN LAPLACE TRANSFORM SPACE FOR SOLUTION OF WEAKLY NONLINEAR WAVE EQUATION. , 2005, , .		0
62	NON-PARALLEL PLANE RAYLEIGH BENARD CONVECTION IN CYLINDRICAL GEOMETRY. Tamkang Journal of Mathematics, 1992, 23, 171-185.	0.3	0
63	Finite amplitude axisymmetric convection between rigid rotating planes. Journal of Computational and Applied Mathematics, 1986, 16, 355-369.	1.1	1
64	Phase-winding Solutions for Axisymmetric Convection between Rotating Planes Uniformly Heated from Below. IMA Journal of Applied Mathematics, 1986, 36, 177-189.	0.8	0
65	Numerical approximation of the time fractional cable model arising in neuronal dynamics. Engineering With Computers, 0, , 1.	3.5	23