Mehdi Dehghan

List of Publications by Year
in descending order

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686 papers	26,912 citations	7672 79 h-index	21843 118 g-index
688 all docs	688 docs citations	688 times ranked	5726 citing authors

#	Article	IF	Citations
1	A new operational matrix for solving fractional-order differential equations. Computers and Mathematics With Applications, 2010, 59, 1326-1336.	1.4	625
2	Solving nonlinear fractional partial differential equations using the homotopy analysis method. Numerical Methods for Partial Differential Equations, 2010, 26, 448-479.	2.0	516
3	Finite difference procedures for solving a problem arising in modeling and design of certain optoelectronic devices. Mathematics and Computers in Simulation, 2006, 71, 16-30.	2.4	379
4	A numerical method for solution of the two-dimensional sine-Gordon equation using the radial basis functions. Mathematics and Computers in Simulation, 2008, 79, 700-715.	2.4	334
5	Numerical solution of the nonlinear Kleinâ€“Gordon equation using radial basis functions. Journal of Computational and Applied Mathematics, 2009, 230, 400-410.	1.1	267
6	Solution of delay differential equations via a homotopy perturbation method. Mathematical and Computer Modelling, 2008, 48, 486-498.	2.0	242
7	On the convergence of He's variational iteration method. Journal of Computational and Applied Mathematics, 2007, 207, 121-128.	1.1	222
8	SOLUTION OF AN INTEGRO-DIFFERENTIAL EQUATION ARISING IN OSCILLATING MAGNETIC FIELDS USING HE'S HOMOTOPY PERTURBATION METHOD. Progress in Electromagnetics Research, 2008, 78, 361-376.	1.6	193
9	On the solution of an initial-boundary value problem that combines Neumann and integral condition for the wave equation. Numerical Methods for Partial Differential Equations, 2005, 21, 24-40.	2.0	187
10	A tau approach for solution of the space fractional diffusion equation. Computers and Mathematics With Applications, 2011, 62, 1135-1142.	1.4	182
11	An approximation algorithm for the solution of the nonlinear Laneâ€“Emden type equations arising in astrophysics using Hermite functions collocation method. Computer Physics Communications, 2010, 181, 1096-1108.	3.0	181
12	A numerical method for solving the hyperbolic telegraph equation. Numerical Methods for Partial Differential Equations, 2008, 24, 1080-1093.	2.0	177
13	Approximate solution of a differential equation arising in astrophysics using the variational iteration method. New Astronomy, 2008, 13, 53-59.	0.8	173
14	Computational methods for solving fully fuzzy linear systems. Applied Mathematics and Computation, 2006, 179, 328-343.	1.4	167
15	On generalized moving least squares and diffuse derivatives. IMA Journal of Numerical Analysis, 2012, 32, 983-1000.	1.5	165
16	The Sincâ€“Legendre collocation method for a class of fractional convectionâ€“diffusion equations with variable coefficients. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4125-4136.	1.7	164
17	Numerical simulation of two-dimensional sine-Gordon solitons via a local weak meshless technique based on the radial point interpolation method (RPIM). Computer Physics Communications, 2010, 181, 772-786.	3.0	163
18	A compact split-step finite difference method for solving the nonlinear SchrÃ¶dinger equations with constant and variable coefficients. Computer Physics Communications, 2010, 181, 43-51.	3.0	158

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19	The general coupled matrix equations over generalized bisymmetric matrices. Linear Algebra and Its Applications, 2010, 432, 1531-1552.	0.4	156
20	A numerical technique for solving fractional optimal control problems. Computers and Mathematics With Applications, 2011, 62, 1055-1067.	1.4	152
21	A computational study of the one-dimensional parabolic equation subject to nonclassical boundary specifications. Numerical Methods for Partial Differential Equations, 2006, 22, 220-257.	2.0	149
22	The one-dimensional heat equation subject to a boundary integral specification. Chaos, Solitons and Fractals, 2007, 32, 661-675.	2.5	146
23	Numerical solution of hyperbolic telegraph equation using the Chebyshev tau method. Numerical Methods for Partial Differential Equations, 2010, 26, 239-252.	2.0	145
24	The use of a meshless technique based on collocation and radial basis functions for solving the time fractional nonlinear SchrÃ¶dinger equation arising in quantum mechanics. Engineering Analysis With Boundary Elements, 2013, 37, 475-485.	2.0	145
25	A numerical method for two-dimensional SchrÃ¶dinger equation using collocation and radial basis functions. Computers and Mathematics With Applications, 2007, 54, 136-146.	1.4	144
26	The solution of coupled Burgersâ€™ equations using Adomianâ€“Pade technique. Applied Mathematics and Computation, 2007, 189, 1034-1047.	1.4	143
27	Numerical solution of the delay differential equations of pantograph type via Chebyshev polynomials. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4815-4830.	1.7	141
28	Weighted finite difference techniques for the one-dimensional advectionâ€“diffusion equation. Applied Mathematics and Computation, 2004, 147, 307-319.	1.4	139
29	The construction of operational matrix of fractional derivatives using B-spline functions. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 1149-1162.	1.7	137
30	The Solution of the Variable Coefficients Fourth-Order Parabolic Partial Differential Equations by the Homotopy Perturbation Method. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 420-430.	0.7	136
31	An iterative method for solving the generalized coupled Sylvester matrix equations over generalized bisymmetric matrices. Applied Mathematical Modelling, 2010, 34, 639-654.	2.2	133
32	The numerical solution of nonlinear high dimensional generalized Benjaminâ€“Bonaâ€“Mahonyâ€“Burgers equation via the meshless method of radial basis functions. Computers and Mathematics With Applications, 2014, 68, 212-237.	1.4	133
33	Parameter determination in a partial differential equation from the overspecified data. Mathematical and Computer Modelling, 2005, 41, 196-213.	2.0	132
34	An iterative algorithm for the reflexive solutions of the generalized coupled Sylvester matrix equations and its optimal approximation. Applied Mathematics and Computation, 2008, 202, 571-588.	1.4	132
35	Solution of the second-order one-dimensional hyperbolic telegraph equation by using the dual reciprocity boundary integral equation (DRBIE) method. Engineering Analysis With Boundary Elements, 2010, 34, 51-59.	2.0	131
36	Efficient techniques for the second-order parabolic equation subject to nonlocal specifications. Applied Numerical Mathematics, 2005, 52, 39-62.	1.2	129

#	Article	IF	Citations
37	Rational Legendre pseudospectral approach for solving nonlinear differential equations of Laneâ€“Emden type. Journal of Computational Physics, 2009, 228, 8830-8840.	1.9	129
38	High-order compact solution of the one-dimensional heat and advectionâ€“diffusion equations. Applied Mathematical Modelling, 2010, 34, 3071-3084.	2.2	129
39	A meshless based method for solution of integral equations. Applied Numerical Mathematics, 2010, 60, 245-262.	1.2	125
40	Meshless Local Petrovâ€“Galerkin (MLPG) method for the unsteady magnetohydrodynamic (MHD) flow through pipe with arbitrary wall conductivity. Applied Numerical Mathematics, 2009, 59, 1043-1058.	1.2	122
41	Application of Heâ€™s homotopy perturbation method for non-linear system of second-order boundary value problems. Nonlinear Analysis: Real World Applications, 2009, 10, 1912-1922.	0.9	122
42	Inverse problem of diffusion equation by He's homotopy perturbation method. Physica Scripta, 2007, 75, 551-556.	1.2	120
43	Two high-order numerical algorithms for solving the multi-term time fractional diffusion-wave equations. Journal of Computational and Applied Mathematics, 2015, 290, 174-195.	1.1	120
44	The use of the decomposition procedure of Adomian for solving a delay differential equation arising in electrodynamics. Physica Scripta, 2008, 78, 065004.	1.2	117
45	Analysis of an iterative algorithm to solve the generalized coupled Sylvester matrix equations. Applied Mathematical Modelling, 2011, 35, 3285-3300.	2.2	116
46	Combination of meshless local weak and strong (MLWS) forms to solve the two dimensional hyperbolic telegraph equation. Engineering Analysis With Boundary Elements, 2010, 34, 324-336.	2.0	115
47	Numerical solution of the three-dimensional advectionâ€“diffusion equation. Applied Mathematics and Computation, 2004, 150, 5-19.	1.4	112
48	An implicit RBF meshless approach for solving the time fractional nonlinear sine-Gordon and Kleinâ€“Gordon equations. Engineering Analysis With Boundary Elements, 2015, 50, 412-434.	2.0	112
49	Application of the collocation method for solving nonlinear fractional integro-differential equations. Journal of Computational and Applied Mathematics, 2014, 257, 105-128.	1.1	109
50	Numerical solution of the system of second-order boundary value problems using the local radial basis functions based differential quadrature collocation method. Applied Mathematical Modelling, 2013, 37, 8578-8599.	2.2	108
51	Use of He's Homotopy Perturbation Method for Solving a Partial Differential Equation Arising in Modeling of Flow in Porous Media. Journal of Porous Media, 2008, 11, 765-778.	1.0	107
52	Solution of a partial integro-differential equation arising from viscoelasticity. International Journal of Computer Mathematics, 2006, 83, 123-129.	1.0	105
53	Solution of a partial differential equation subject to temperature overspecification by He's homotopy perturbation method. Physica Scripta, 2007, 75, 778-787.	1.2	104
54	The numerical solution of the non-linear integro-differential equations based on the meshless method. Journal of Computational and Applied Mathematics, 2012, 236, 2367-2377.	1.1	102

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55	The meshless local Petrovâ€“Galerkin (MLPG) method for the generalized two-dimensional non-linear SchrÃ¶dinger equation. Engineering Analysis With Boundary Elements, 2008, 32, 747-756.	2.0	101
56	An inverse problem of finding a source parameter in a semilinear parabolic equation. Applied Mathematical Modelling, 2001, 25, 743-754.	2.2	100
57	Iterative solution of fuzzy linear systems. Applied Mathematics and Computation, 2006, 175, 645-674.	1.4	100
58	A numerical method for KdV equation using collocation and radial basis functions. Nonlinear Dynamics, 2007, 50, 111-120.	2.7	100
59	A high-order and unconditionally stable scheme for the modified anomalous fractional sub-diffusion equation with a nonlinear source term. Journal of Computational Physics, 2013, 240, 36-48.	1.9	99
60	Solution of the fully fuzzy linear systems using iterative techniques. Chaos, Solitons and Fractals, 2007, 34, 316-336.	2.5	98
61	Variational iteration method for solving a generalized pantograph equation. Computers and Mathematics With Applications, 2009, 58, 2190-2196.	1.4	97
62	The use of He's variational iteration method for solving the telegraph and fractional telegraph equations. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 219-231.	1.0	97
63	Numerical solution of a class of fractional optimal control problems via the Legendre orthonormal basis combined with the operational matrix and the Gauss quadrature rule. Journal of Computational and Applied Mathematics, 2013, 250, 143-160.	1.1	96
64	Numerical solution of the Kleinâ€“Gordon equation via Heâ€™s variational iteration method. Nonlinear Dynamics, 2007, 51, 89-97.	2.7	95
65	Proper orthogonal decomposition variational multiscale element free Galerkin (POD-VMEFG) meshless method for solving incompressible Navierâ€“Stokes equation. Computer Methods in Applied Mechanics and Engineering, 2016, 311, 856-888.	3.4	95
66	A Legendre collocation method for fractional integro-differential equations. JVC/Journal of Vibration and Control, 2011, 17, 2050-2058.	1.5	94
67	Application of the Expâ€function method for solving a partial differential equation arising in biology and population genetics. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 736-753.	1.6	94
68	On the solution of the non-local parabolic partial differential equations via radial basis functions. Applied Mathematical Modelling, 2009, 33, 1729-1738.	2.2	93
69	The use of interpolating element-free Galerkin technique for solving 2D generalized Benjaminâ€“Bonaâ€“Mahonyâ€“Burgers and regularized long-wave equations on non-rectangular domains with error estimate. Journal of Computational and Applied Mathematics, 2015, 286, 211-231.	1.1	93
70	A Not-a-Knot meshless method using radial basis functions and predictorâ€“corrector scheme to the numerical solution of improved Boussinesq equation. Computer Physics Communications, 2010, 181, 1990-2000.	3.0	90
71	Application of the Adomian decomposition method for the Fokkerâ€“Planck equation. Mathematical and Computer Modelling, 2007, 45, 639-650.	2.0	89
72	A method for solving partial differential equations via radial basis functions: Application to the heat equation. Engineering Analysis With Boundary Elements, 2010, 34, 206-212.	2.0	89

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73	Solution of a nonlinear time-delay model in biology via semi-analytical approaches. Computer Physics Communications, 2010, 181, 1255-1265.	3.0	84
74	A moving least square reproducing polynomial meshless method. Applied Numerical Mathematics, 2013, 69, 34-58.	1.2	84
75	Error estimate for the numerical solution of fractional reactionâ€“subdiffusion process based on a meshless method. Journal of Computational and Applied Mathematics, 2015, 280, 14-36.	1.1	84
76	Identification of a time-dependent coefficient in a partial differential equation subject to an extra measurement. Numerical Methods for Partial Differential Equations, 2005, 21, 611-622.	2.0	83
77	The boundary elements method for magneto-hydrodynamic (MHD) channel flows at high Hartmann numbers. Applied Mathematical Modelling, 2013, 37, 2337-2351.	2.2	83
78	Determination of a control parameter in a one-dimensional parabolic equation using the method of radial basis functions. Mathematical and Computer Modelling, 2006, 44, 1160-1168.	2.0	82
79	High order implicit collocation method for the solution of twoâ€dimensional linear hyperbolic equation. Numerical Methods for Partial Differential Equations, 2009, 25, 232-243.	2.0	82
80	The use of a Legendre multiwavelet collocation method for solving the fractional optimal control problems. JVC/Journal of Vibration and Control, 2011, 17, 2059-2065.	1.5	82
81	A meshless based numerical technique for traveling solitary wave solution of Boussinesq equation. Applied Mathematical Modelling, 2012, 36, 1939-1956.	2.2	82
82	An improved meshless method for solving two-dimensional distributed order time-fractional diffusion-wave equation with error estimate. Numerical Algorithms, 2017, 75, 173-211.	1.1	82
83	High order compact solution of the oneâ€spaceâ€dimensional linear hyperbolic equation. Numerical Methods for Partial Differential Equations, 2008, 24, 1222-1235.	2.0	81
84	Meshless local Petrovâ€“Galerkin (MLPG) approximation to the two dimensional sine-Gordon equation. Journal of Computational and Applied Mathematics, 2010, 233, 2737-2754.	1.1	81
85	The dual reciprocity boundary element method (DRBEM) for two-dimensional sine-Gordon equation. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 476-486.	3.4	79
86	Application of He's variational iteration method for solving the Cauchy reactionâ€“diffusion problem. Journal of Computational and Applied Mathematics, 2008, 214, 435-446.	1.1	79
87	High-order solution of one-dimensional sineâ€“Gordon equation using compact finite difference and DIRKN methods. Mathematical and Computer Modelling, 2010, 51, 537-549.	2.0	79
88	An iterative algorithm for solving a pair of matrix equations<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>A</mml:mi><mml:mi>Y</mml:mi><mml:mi>B</mml:mi><mml:mo>=</mml:mo><mml:mi>E</mml:mi><mml:mi><mml generalized centro-symmetric matrices. Computers and Mathematics With Applications, 2008, 56, 3246-3260.	1.1	78
89	Finite iterative algorithms for the reflexive and anti-reflexive solutions of the matrix equation <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si9.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>A</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow><mml Mathematical and Computer Modelling, 2009, 49, 1937-1959.	2.0	78
90	Meshless local boundary integral equation (LBIE) method for the unsteady magnetohydrodynamic (MHD) flow in rectangular and circular pipes. Computer Physics Communications, 2009, 180, 1458-1466.	3.0	78

#	Article	IF	Citations
91	Key words: Nonlinear Differential-Difference Equations; Exp-Function Method; N-Soliton Solutions. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 935-949.	0.7	78
92	A meshless method for numerical solution of a linear hyperbolic equation with variable coefficients in two space dimensions. Numerical Methods for Partial Differential Equations, 2009, 25, 494-506.	2.0	77
93	The solitary wave solution of the two-dimensional regularized long-wave equation in fluids and plasmas. Computer Physics Communications, 2011, 182, 2540-2549.	3.0	77
94	Numerical solutions of the generalized Kuramotoâ€“Sivashinsky equation using B-spline functions. Applied Mathematical Modelling, 2012, 36, 605-617.	2.2	77
95	The use of Chebyshev cardinal functions for solution of the secondâ€order oneâ€dimensional telegraph equation. Numerical Methods for Partial Differential Equations, 2009, 25, 931-938.	2.0	76
96	Fourth-order compact solution of the nonlinear Klein-Gordon equation. Numerical Algorithms, 2009, 52, 523-540.	1.1	76
97	A finite volume spectral element method for solving magnetohydrodynamic (MHD) equations. Applied Numerical Mathematics, 2011, 61, 1-23.	1.2	76
98	A meshless local Petrovâ€“Galerkin method for the time-dependent Maxwell equations. Journal of Computational and Applied Mathematics, 2014, 268, 93-110.	1.1	76
99	The solution of linear and nonlinear systems of Volterra functional equations using Adomianâ€“Pade technique. Chaos, Solitons and Fractals, 2009, 39, 2509-2521.	2.5	75
100	Numerical solution to the unsteady twoâ€dimensional SchrÃ¶dinger equation using meshless local boundary integral equation method. International Journal for Numerical Methods in Engineering, 2008, 76, 501-520.	1.5	74
101	The method of lines for solution of the one-dimensional wave equation subject to an integral conservation condition. Computers and Mathematics With Applications, 2008, 56, 2175-2188.	1.4	73
102	The numerical solution of the second PainlevÃ© equation. Numerical Methods for Partial Differential Equations, 2009, 25, 1238-1259.	2.0	73
103	The solitary wave solution of coupled Kleinâ€“Gordonâ€“Zakharov equations via two different numerical methods. Computer Physics Communications, 2013, 184, 2145-2158.	3.0	73
104	A finite element method for the numerical solution of Rayleighâ€“Stokes problem for a heated generalized second grade fluid with fractional derivatives. Engineering With Computers, 2017, 33, 587-605.	3.5	73
105	A Legendre spectral element method (SEM) based on the modified bases for solving neutral delay distributedâ€order fractional damped diffusionâ€wave equation. Mathematical Methods in the Applied Sciences, 2018, 41, 3476-3494.	1.2	73
106	Solution of the fully fuzzy linear systems using the decomposition procedure. Applied Mathematics and Computation, 2006, 182, 1568-1580.	1.4	72
107	Numerical solution of a biological population model using Heâ€™s variational iteration method. Computers and Mathematics With Applications, 2007, 54, 1197-1209.	1.4	72
108	A numerical method for oneâ€dimensional nonlinear Sineâ€Gordon equation using collocation and radial basis functions. Numerical Methods for Partial Differential Equations, 2008, 24, 687-698.	2.0	72

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109	Application of the dual reciprocity boundary integral equation technique to solve the nonlinear Kleinâ€“Gordon equation. Computer Physics Communications, 2010, 181, 1410-1418.	3.0	72
110	A meshless method for solving nonlinear two-dimensional integral equations of the second kind on non-rectangular domains using radial basis functions with error analysis. Journal of Computational and Applied Mathematics, 2013, 239, 72-92.	1.1	72
111	Direct meshless local Petrovâ€“Galerkin method for elliptic interface problems with applications in electrostatic and elastostatic. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 479-498.	3.4	72
112	Analysis of a meshless method for the time fractional diffusion-wave equation. Numerical Algorithms, 2016, 73, 445-476.	1.1	72
113	The use of the Adomian decomposition method for solving multipoint boundary value problems. Physica Scripta, 2006, 73, 672-676.	1.2	71
114	Collocation and finite difference-collocation methods for the solution of nonlinear Kleinâ€“Gordon equation. Computer Physics Communications, 2010, 181, 1392-1401.	3.0	71
115	The meshless local collocation method for solving multi-dimensional Cahn-Hilliard, Swift-Hohenberg and phase field crystal equations. Engineering Analysis With Boundary Elements, 2017, 78, 49-64.	2.0	70
116	The use of He's variational iteration method for solving a Fokkerâ€“Planck equation. Physica Scripta, 2006, 74, 310-316.	1.2	69
117	The use of compact boundary value method for the solution of two-dimensional SchrÃ¶dinger equation. Journal of Computational and Applied Mathematics, 2009, 225, 124-134.	1.1	69
118	A method based on meshless approach for the numerical solution of the twoâ€space dimensional hyperbolic telegraph equation. Mathematical Methods in the Applied Sciences, 2012, 35, 1220-1233.	1.2	68
119	Legendre spectral element method for solving time fractional modified anomalous sub-diffusion equation. Applied Mathematical Modelling, 2016, 40, 3635-3654.	2.2	68
120	A numerical scheme based on radial basis function finite difference (RBF-FD) technique for solving the high-dimensional nonlinear SchrÃ¶dinger equations using an explicit time discretization: Rungeâ€“Kutta method. Computer Physics Communications, 2017, 217, 23-34.	3.0	68
121	Solution of a model describing biological species living together using the variational iteration method. Mathematical and Computer Modelling, 2008, 48, 685-699.	2.0	67
122	Numerical solution of the higher-order linear Fredholm integro-differential-difference equation with variable coefficients. Computers and Mathematics With Applications, 2010, 59, 2996-3004.	1.4	67
123	The numerical solution of a nonlinear system of second-order boundary value problems using the sinc-collocation method. Mathematical and Computer Modelling, 2007, 46, 1434-1441.	2.0	66
124	Identifying an unknown function in a parabolic equation with overspecified data via Heâ€™s variational iteration method. Chaos, Solitons and Fractals, 2008, 36, 157-166.	2.5	66
125	The use of proper orthogonal decomposition (POD) meshless RBF-FD technique to simulate the shallow water equations. Journal of Computational Physics, 2017, 351, 478-510.	1.9	66
126	A finite difference/finite element technique with error estimate for space fractional tempered diffusion-wave equation. Computers and Mathematics With Applications, 2018, 75, 2903-2914.	1.4	66

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127	A meshless method using the radial basis functions for numerical solution of the regularized long wave equation. Numerical Methods for Partial Differential Equations, 2010, 26, 807-825.	2.0	65
128	The spectral methods for parabolic Volterra integro-differential equations. Journal of Computational and Applied Mathematics, 2011, 235, 4032-4046.	1.1	65
129	The operational matrices of Bernstein polynomials for solving the parabolic equation subject to specification of the mass. Journal of Computational and Applied Mathematics, 2011, 235, 5272-5283.	1.1	65
130	The use of Chebyshev cardinal functions for the solution of a partial differential equation with an unknown time-dependent coefficient subject to an extra measurement. Journal of Computational and Applied Mathematics, 2010, 235, 669-678.	1.1	64
131	Inverse problem of time-dependent heat sources numerical reconstruction. Mathematics and Computers in Simulation, 2011, 81, 1656-1672.	2.4	64
132	ANALYTICAL TREATMENT OF SOME PARTIAL DIFFERENTIAL EQUATIONS ARISING IN MATHEMATICAL PHYSICS BY USING THEExp-FUNCTION METHOD. International Journal of Modern Physics B, 2011, 25, 2965-2981.	1.0	64
133	The numerical solution of Cahnâ€“Hilliard (CH) equation in one, two and three-dimensions via globally radial basis functions (GRBFs) and RBFs-differential quadrature (RBFs-DQ) methods. Engineering Analysis With Boundary Elements, 2015, 51, 74-100.	2.0	64
134	Determination of a control parameter in the two-dimensional diffusion equation. Applied Numerical Mathematics, 2001, 37, 489-502.	1.2	63
135	Heâ€™s variational iteration method for computing a control parameter in a semi-linear inverse parabolic equation. Chaos, Solitons and Fractals, 2007, 33, 671-677.	2.5	63
136	Efficient iterative method for solving the second-order Sylvester matrix equation EVF2â”'AVFâ”'CV=BW. IET Control Theory and Applications, 2009, 3, 1401-1408.	1.2	63
137	A numerical scheme for the solution of a class of fractional variational and optimal control problems using the modified Jacobi polynomials. JVC/Journal of Vibration and Control, 2016, 22, 1547-1559.	1.5	63
138	Fourth-order numerical method for the spaceâ€“time tempered fractional diffusion-wave equation. Applied Mathematics Letters, 2017, 73, 120-127.	1.5	63
139	Heâ€™s variational iteration method for solving nonlinear mixed Volterraâ€“Fredholm integral equations. Computers and Mathematics With Applications, 2009, 58, 2172-2176.	1.4	62
140	An efficient technique based on finite difference/finite element method for solution of two-dimensional space/multi-time fractional Blochâ€“Torrey equations. Applied Numerical Mathematics, 2018, 131, 190-206.	1.2	62
141	Timeâ€splitting procedures for the solution of the twoâ€dimensional transport equation. Kybernetes, 2007, 36, 791-805.	1.2	61
142	A meshless method for numerical solution of the one-dimensional wave equation with an integral condition using radial basis functions. Numerical Algorithms, 2009, 52, 461-477.	1.1	61
143	High-order compact boundary value method for the solution of unsteady convectionâ€“diffusion problems. Mathematics and Computers in Simulation, 2008, 79, 683-699.	2.4	60
144	Numerical solution of nonlinear system of second-order boundary value problems using cubic B-spline scaling functions. International Journal of Computer Mathematics, 2008, 85, 1455-1461.	1.0	59

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145	Numerical solution for the weakly singular Fredholm integro-differential equations using Legendre multiwavelets. Journal of Computational and Applied Mathematics, 2011, 235, 3291-3303.	1.1	59
146	Determination of a control function in three-dimensional parabolic equations. Mathematics and Computers in Simulation, 2003, 61, 89-100.	2.4	58
147	Chebyshev finite difference method for Fredholm integro-differential equation. International Journal of Computer Mathematics, 2008, 85, 123-130.	1.0	58
148	Two algorithms for finding the Hermitian reflexive and skew-Hermitian solutions of Sylvester matrix equations. Applied Mathematics Letters, 2011, 24, 444-449.	1.5	58
149	A meshfree weak-strong (MWS) form method for the unsteady magnetohydrodynamic (MHD) flow in pipe with arbitrary wall conductivity. Computational Mechanics, 2013, 52, 1445-1462.	2.2	58
150	Numerical solution of nonlinear SchrÃ¶dinger equation by using timeâ€space pseudoâ€spectral method. Numerical Methods for Partial Differential Equations, 2010, 26, 979-992.	2.0	57
151	The use of Sinc-collocation method for solving multi-point boundary value problems. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 593-601.	1.7	57
152	A generalized moving least square reproducing kernel method. Journal of Computational and Applied Mathematics, 2013, 249, 120-132.	1.1	57
153	Fractional Sturmâ€“Liouville boundary value problems in unbounded domains: Theory and applications. Journal of Computational Physics, 2015, 299, 526-560.	1.9	57
154	The method of variably scaled radial kernels for solving two-dimensional magnetohydrodynamic (MHD) equations using two discretizations: The Crankâ€“Nicolson scheme and the method of lines (MOL). Computers and Mathematics With Applications, 2015, 70, 2292-2315.	1.4	57
155	The use of radial basis functions (RBFs) collocation and RBF-QR methods for solving the coupled nonlinear sine-Gordon equations. Engineering Analysis With Boundary Elements, 2015, 52, 99-109.	2.0	57
156	Analysis of the element free Galerkin (EFG) method for solving fractional cable equation with Dirichlet boundary condition. Applied Numerical Mathematics, 2016, 109, 208-234.	1.2	57
157	Variational multiscale element free Galerkin (VMEFG) and local discontinuous Galerkin (LDG) methods for solving two-dimensional Brusselator reactionâ€“diffusion system with and without cross-diffusion. Computer Methods in Applied Mechanics and Engineering, 2016, 300, 770-797.	3.4	57
158	Numerical solution of the one-dimensional wave equation with an integral condition. Numerical Methods for Partial Differential Equations, 2007, 23, 282-292.	2.0	56
159	A new ADI technique for two-dimensional parabolic equation with an integral condition. Computers and Mathematics With Applications, 2002, 43, 1477-1488.	1.4	55
160	Semiorthogonal spline wavelets approximation for Fredholm integro-differential equations. Mathematical Problems in Engineering, 2006, 2006, 1-12.	0.6	55
161	Determination of a control function in threeâ€dimensional parabolic equations by Legendre pseudospectral method. Numerical Methods for Partial Differential Equations, 2012, 28, 74-93.	2.0	55
162	Compact finite difference scheme and RBF meshless approach for solving 2D Rayleighâ€“Stokes problem for a heated generalized second grade fluid with fractional derivatives. Computer Methods in Applied Mechanics and Engineering, 2013, 264, 163-177.	3.4	55

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