Analytical solution of the linear fractional differential educomposition method

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The decomposition method applied to the Cauchy problem. Kybernetes, 1999, 28, 68-74.	1.2	38
2	Modified Camassa–Holm and Degasperis–Procesi Equations Solved by Adomian's Decomposition Method and Comparison with HPM and Exact Solutions. Acta Applicandae Mathematicae, 2008, 104, 303-311.	0.5	14
3	Application of homotopy-perturbation method to fractional IVPs. Journal of Computational and Applied Mathematics, 2008, 216, 574-584.	1.1	75
4	COUPLED FRACTIONAL DIFFERENTIAL EQUATIONS OF MULTI-ORDERS. Fractals, 2009, 17, 467-472.	1.8	1
5	The solution of the Bagley–Torvik equation with the generalized Taylor collocation method. Journal of the Franklin Institute, 2010, 347, 452-466.	1.9	115
6	Efficient solution of a vibration equation involving fractional derivatives. International Journal of Non-Linear Mechanics, 2010, 45, 169-175.	1.4	38
7	Application of Fractional Calculus for Dynamic Problems of Solid Mechanics: Novel Trends and Recent Results. Applied Mechanics Reviews, 2010, 63, .	4.5	423
8	The Approximate Solution of High-Order Linear Fractional Differential Equations with Variable Coefficients in Terms of Generalized Taylor Polynomials. Mathematical and Computational Applications, 2011, 16, 617-629.	0.7	12
9	Computing Eigenelements of Sturm–Liouville Problems of Fractional Order via Fractional Differential Transform Method. Mathematical and Computational Applications, 2011, 16, 712-720.	0.7	31
10	Analytical solution of the linear fractional system of commensurate order. Computers and Mathematics With Applications, 2011, 62, 4415-4428.	1.4	7
11	Solution of Fractional Order System of Bagley-Torvik Equation Using Evolutionary Computational Intelligence. Mathematical Problems in Engineering, 2011, 2011, 1-18.	0.6	68
12	Solution to the Linear Fractional Differential Equation Using Adomian Decomposition Method. Mathematical Problems in Engineering, 2011, 2011, 1-14.	0.6	35
13	Solving Linear Coupled Fractional Differential Equations by Direct Operational Method and Some Applications. Mathematical Problems in Engineering, 2012, 2012, 1-28.	0.6	23
14	The Extended Fractional Subequation Method for Nonlinear Fractional Differential Equations. Mathematical Problems in Engineering, 2012, 2012, 1-11.	0.6	16
15	A generalized fractional sub-equation method for fractional differential equations with variable coefficients. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2588-2590.	0.9	98
16	A reproducing kernel method for solving nonlocal fractional boundary value problems. Applied Mathematics Letters, 2012, 25, 818-823.	1.5	120
17	Compacton and solitary pattern solutions for nonlinear dispersive KdV-type equations involving Jumarie's fractional derivative. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 158-164.	0.9	13
18	Numerical approach for solving fractional Fredholm integro-differential equation. International Journal of Computer Mathematics, 2013, 90, 1413-1434.	1.0	13

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#	Article	IF	CITATIONS
19	Numerical approach for solving fractional relaxation–oscillation equation. Applied Mathematical Modelling, 2013, 37, 5927-5937.	2.2	23
20	Numerical Solution of Fuzzy Fractional Pharmacokinetics Model Arising from Drug Assimilation into the Bloodstream. Abstract and Applied Analysis, 2013, 2013, 1-17.	0.3	13
21	A semi-analytic method with an effect of memory for solving fractional differential equations. Advances in Difference Equations, 2013, 2013, .	3.5	0
22	Non-probabilistic solutions of imprecisely defined fractional-order diffusion equations. Chinese Physics B, 2014, 23, 120202.	0.7	9
23	The modified Kudryashov method for solving some fractional-order nonlinear equations. Advances in Difference Equations, 2014, 2014, .	3.5	99
24	Exact solutions of fractional heat-like and wave-like equations with variable coefficients. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 455-467.	1.6	10
25	Analytical solutions of fractional foam drainage equation by residual power series method. Mathematical Sciences, 2014, 8, 153-160.	1.0	83
26	Efficient analytic method for solving nonlinear fractional differential equations. Applied Mathematical Modelling, 2014, 38, 1775-1787.	2.2	7
27	Homotopy perturbation method for two dimensional time-fractional wave equation. Applied Mathematical Modelling, 2014, 38, 5545-5552.	2.2	52
28	A fully discrete local discontinuous Galerkin method for one-dimensional time-fractional Fisher's equation. International Journal of Computer Mathematics, 2014, 91, 2021-2038.	1.0	16
29	An Efficient Algorithm for Solving Differential Equations to Facilitate Modeling and Simulation of Aerospace Systems. , 0, , .		0
30	Generalized Taylor Series Method for Solving Nonlinear Fractional Differential Equations with Modified Riemann-Liouville Derivative. Advances in Mathematical Physics, 2015, 2015, 1-10.	0.4	6
32	A Method of Finding Source Function for Inverse Diffusion Problem with Time-Fractional Derivative. Advances in Mathematical Physics, 2016, 2016, 1-8.	0.4	1
33	On construction of solutions of linear fractional differential equations with constant coefficients. AIP Conference Proceedings, 2016, , .	0.3	3
34	Concreted solutions to fuzzy linear fractional differential equations. Applied Soft Computing Journal, 2016, 44, 108-116.	4.1	37
36	Operator Method for Construction of Solutions of Linear Fractional Differential Equations with Constant Coefficients. Fractional Calculus and Applied Analysis, 2016, 19, 229-252.	1.2	30
37	The solution of state space linear fractional system of commensurate order with complex eigenvalues using regular exponential and trigonometric functions. International Journal of Dynamics and Control, 2017, 5, 79-94.	1.5	1
38	Numerical solution the fractional Bagley–Torvik equation arising in fluid mechanics. International Journal of Computer Mathematics, 2017, 94, 173-184.	1.0	26

#	Article	IF	CITATIONS
39	Recent Advances in Electrical Engineering and Control Applications. Lecture Notes in Electrical Engineering, 2017, , .	0.3	0
40	Rational Function Approximation of a Fundamental Fractional Order Transfer Function. Lecture Notes in Electrical Engineering, 2017, , 259-275.	0.3	0
41	A generalized scheme based on shifted Jacobi polynomials for numerical simulation of coupled systems of multi-term fractional-order partial differential equations. LMS Journal of Computation and Mathematics, 2017, 20, 11-29.	0.9	17
42	Design of unsupervised fractional neural network model optimized with interior point algorithm for solving Bagley–Torvik equation. Mathematics and Computers in Simulation, 2017, 132, 139-158.	2.4	94
43	Operator Method for Constructing a Solution of a Class of Linear Differential Equations of Fractional Order. Springer Proceedings in Mathematics and Statistics, 2017, , 179-193.	0.1	0
44	Fractional order RLC circuits. , 2017, , .		5
45	Numerical Solutions of Coupled Systems of Fractional Order Partial Differential Equations. Advances in Mathematical Physics, 2017, 2017, 1-14.	0.4	7
46	Traveling wave solutions to some nonlinear fractional partial differential equations through the rational (G $\hat{a} \in 2/$ G)-expansion method. Journal of Ocean Engineering and Science, 2018, 3, 76-81. Abundant closed form solutions of the conformable time fractional Sawada-Kotera-Ito equation	1.7	57
47	using <mml:math <br="" altimg="si1.gif" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"><mml:mrow><mml:mo stretchy="false">(<mml:msup><mml:mrow><mml:mi>G</mml:mi></mml:mrow><mml:mrow><mml< td=""><td>:mo>a€2<</td><td>/m?17:mo></td></mml<></mml:mrow></mml:msup></mml:mo </mml:mrow></mml:math>	:mo>a€2<	/m ?17 :mo>
48	337-343. Numerical treatment of non-integer order partial differential equations by omitting discretization of data. Computational and Applied Mathematics, 2018, 37, 6700-6718.	1.3	14
49	Selection of shape parameter in radial basis functions for solution of time-fractional Black–Scholes models. Applied Mathematics and Computation, 2018, 335, 248-263.	1.4	23
50	Quasilinearized Scale-3 Haar wavelets-based algorithm for numerical simulation of fractional dynamical systems. Engineering Computations, 2018, 35, 1907-1931.	0.7	23
51	A new modified definition of Caputo–Fabrizio fractional-order derivative and their applications to the Multi Step Homotopy Analysis Method (MHAM). Journal of Computational and Applied Mathematics, 2019, 346, 247-260.	1.1	85
52	Analytical solutions of linear inhomogeneous fractional differential equation with continuous variable coefficients. Advances in Difference Equations, 2019, 2019, .	3.5	5
53	Two computational approaches for solving a fractional obstacle system in Hilbert space. Advances in Difference Equations, 2019, 2019, .	3.5	44
54	The classification of single traveling wave solutions to coupled time-fractional KdV-Drinfel'd-Sokolov-Wilson system. Results in Physics, 2019, 13, 102291.	2.0	16
55	Numerical Solution of Fraction Bagley–Torvik Boundary Value Problem Based on Chebyshev Collocation Method. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	0.9	4
56	An implementation of Haar wavelet based method for numerical treatment of time-fractional SchrĶdinger and coupled SchrĶdinger systems. IEEE/CAA Journal of Automatica Sinica, 2019, 6, 177-187.	8.5	15

#	Article	IF	CITATIONS
57	An optimized decomposition method for nonlinear ordinary and partial differential equations. Physica A: Statistical Mechanics and Its Applications, 2020, 541, 123323.	1.2	23
58	The Use of Partial Fractional Form of A-Stable Padé Schemes for the Solution of Fractional Diffusion Equation with Application in Option Pricing. Computational Economics, 2020, 56, 695-709.	1.5	1
60	An Investigation of Fractional Bagley–Torvik Equation. Entropy, 2020, 22, 28.	1.1	10
61	Numerical solution of fractional diffusion equation by Chebyshev collocation method and residual power series method. AEJ - Alexandria Engineering Journal, 2020, 59, 4709-4717.	3.4	9
62	Numerical solution of Bagley–Torvik equations using Legendre artificial neural network method. Evolutionary Intelligence, 2021, 14, 2027-2037.	2.3	10
63	Stable numerical results to a class of time-space fractional partial differential equations via spectral method. Journal of Advanced Research, 2020, 25, 39-48.	4.4	31
64	Legendre spectral method for the fractional Bratu problem. Mathematical Methods in the Applied Sciences, 2020, 43, 5941-5952.	1.2	32
65	Analysis of imprecisely defined fuzzy space-fractional telegraph equations. Pramana - Journal of Physics, 2020, 94, 1.	0.9	3
66	A new algorithm for fractional differential equation based on fractional order reproducing kernel space. Mathematical Methods in the Applied Sciences, 2021, 44, 2171-2182.	1.2	4
67	On the convergence of Jacobiâ€Gauss collocation method for linear fractional delay differential equations. Mathematical Methods in the Applied Sciences, 2021, 44, 2237-2253.	1.2	9
68	On multiple solutions for a fourth order nonlinear singular boundary value problems arising in epitaxial growth theory. Mathematical Methods in the Applied Sciences, 2021, 44, 5418-5435.	1.2	5
69	Searching closed form analytic solutions to some nonlinear fractional wave equations. Arab Journal of Basic and Applied Sciences, 2021, 28, 64-72.	1.0	12
70	Analysis and Computation of Solutions for a Class of Nonlinear SBVPs Arising in Epitaxial Growth. Mathematics, 2021, 9, 774.	1.1	4
71	A New Approach for an Analytical Solution for a System of Multi-term Linear Fractional Differential Equations. Iranian Journal of Science and Technology, Transaction A: Science, 2021, 45, 955-964.	0.7	3
72	Analytic and numerical solutions of discrete Bagley–Torvik equation. Advances in Difference Equations, 2021, 2021, .	3.5	3
73	An Efficient Mechanism to Solve Fractional Differential Equations Using Fractional Decomposition Method. Symmetry, 2021, 13, 984.	1.1	2
74	Distinct solutions of nonlinear space–time fractional evolution equations appearing in mathematical physics via a new technique. Partial Differential Equations in Applied Mathematics, 2021, 3, 100031.	1.3	8
75	INVESTIGATION OF FRACTIONAL ORDER SINE-GORDON EQUATION USING LAPLACE ADOMIAN DECOMPOSITION METHOD. Fractals, 2021, 29, 2150121.	1.8	23

#	Article	IF	CITATIONS
76	Numerical Solution of the Fractional Relaxation-Oscillation Equation by Using Reproducing Kernel Hilbert Space Method. International Journal of Applied and Computational Mathematics, 2021, 7, 1.	0.9	3
77	On the Operator Method for Solving Linear Integro-Differential Equations with Fractional Conformable Derivatives. Fractal and Fractional, 2021, 5, 109.	1.6	2
78	An efficient method for linear fractional delay integro-differential equations. Computational and Applied Mathematics, 2021, 40, 1.	1.0	4
79	Further innovative optical solitons of fractional nonlinear quadratic-cubic SchrĶdinger equation via two techniques. Optical and Quantum Electronics, 2021, 53, 1.	1.5	8
80	EXACT ANALYTIC WAVE SOLUTIONS TO SOME NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS FOR THE SHALLOW WATER WAVE ARISE IN PHYSICS AND ENGINEERING. Journal of Research in Engineering and Applied Sciences, 2021, 6, 11-18.	0.2	2
81	Performance Analysis of Fractional-Order High-Pass Filter. Lecture Notes in Electrical Engineering, 2020, , 511-519.	0.3	7
82	Performance Analysis of Fractional Order Low-pass Filter. Lecture Notes in Networks and Systems, 2020, , 224-231.	0.5	9
83	Lucas polynomials semi-analytic solution for fractional multi-term initial value problems. Advances in Difference Equations, 2019, 2019, .	3.5	3
84	A new approach to approximate solutions for a class of nonlinear multi-term fractional differential equations with integral boundary conditions. Advances in Difference Equations, 2020, 2020, .	3.5	3
85	ANALYTICAL SOLUTION OF TIME-FRACTIONAL TWO-COMPONENT EVOLUTIONARY SYSTEM OF ORDER 2 BY RESIDUAL POWER SERIES METHOD. Journal of Applied Analysis and Computation, 2015, 5, 589-599.	0.2	16
87	ANALYTICAL SOLUTION OF BAGLEY TORVIK EQUATION BY GENERALIZE DIFFERENTIAL TRANSFORM. International Journal of Pure and Applied Mathematics, 2016, 110, .	0.2	11
88	Solitary and compacton solutions of fractional KdV-like equations. Open Physics, 2016, 14, 328-336.	0.8	1
90	Numerical treatment of coupled system of fractional order partial differential equations. Journal of Mathematics and Computer Science, 2019, 19, 74-85.	0.5	6
91	Analytical solutions to contact problem with fractional derivatives in the sense of Caputo. Thermal Science, 2020, 24, 313-323.	0.5	2
92	Traveling wave solutions in closed form for some nonlinear fractional evolution equations related to conformable fractional derivative. AIMS Mathematics, 2018, 3, 625-646.	0.7	8
93	Multiple closed form solutions to some fractional order nonlinear evolution equations in physics and plasma physics. AIMS Mathematics, 2019, 4, 397-411.	0.7	40
94	Hermite Solution of Bagley-Torvik Equation of Fractional Order. International Journal of Modern Nonlinear Theory and Application, 2017, 06, 104-118.	0.1	6
95	Optimal homotopy asymptotic method for solving fractional relaxation-oscillation equation. Journal of Interpolation and Approximation in Scientific Computing, 2015, 2015, 98-111.	0.3	8

#	Article	IF	CITATIONS
96	Fractional Sub-equation Method and Analytical Solutions to the Hirota-satsuma Coupled KdV Equation and Coupled mKdV Equation. British Journal of Mathematics & Computer Science, 2014, 4, 572-589.	0.3	9
97	Further fresh and general traveling wave solutions to some fractional order nonlinear evolution equations in mathematical physics. Arab Journal of Mathematical Sciences, 2021, 27, 151-170.	0.2	6
98	Soliton Types Wave Solutions to Fractional Order Nonlinear Evolution Equations Arise in Mathematical Physics. , 2021, 1, 34.		0
99	Solving the Economic Growth Acceleration Model with Memory Effects: An Application of Combined Theorem of Adomian Decomposition Methods and Kashuri–Fundo Transformation Methods. Symmetry, 2022, 14, 192.	1.1	4
100	Diverse optical soliton solutions of the fractional coupled (2 + 1)-dimensional nonlinear Schrödinger equations. Optical and Quantum Electronics, 2022, 54, 1.	1.5	8
101	On existence and semi-analytical results to fractional order mathematical model of COVID-19. Arab Journal of Basic and Applied Sciences, 2022, 29, 40-52.	1.0	3
102	Design of neuro-swarming computational solver for the fractional Bagley–Torvik mathematical model. European Physical Journal Plus, 2022, 137, 245.	1.2	17
103	A Legendreâ€based approach of the optimized decomposition method for solving nonlinear Caputoâ€ŧype fractional differential equations. Mathematical Methods in the Applied Sciences, 0, , .	1.2	6
104	New-fashioned solitons of coupled nonlinear Maccari systems describing the motion of solitary waves in fluid flow. Journal of Ocean Engineering and Science, 2022, , .	1.7	6
105	Existence Results for Hilfer Fractional Differential Equations with Variable Coefficient. Fractal and Fractional, 2022, 6, 11.	1.6	6
106	Applications of OHAM and MOHAM for Fractional Seventh-Order SKI Equations. Journal of Applied Mathematics, 2021, 2021, 1-8.	0.4	2
107	On finding exact and approximate solutions to fractional systems of ordinary differential equations using fractional natural adomian decomposition method. Journal of Algorithms and Computational Technology, 2022, 16, 174830262210914.	0.4	1
108	FRACTIONAL MEYER NEURAL NETWORK PROCEDURES OPTIMIZED BY THE GENETIC ALGORITHM TO SOLVE THE BAGLEY-TORVIK MODEL. Journal of Applied Analysis and Computation, 2022, 12, 2458-2474.	0.2	2
109	Analytical approximate solutions of fractional nonlinear DrinfeldSokolovWilson model using modified Mittag-Leffler function. Journal of Ocean Engineering and Science, 2022, , .	1.7	1
110	A New Modified Analytical Approach for the Solution of Time-Fractional Convection–Diffusion Equations With Variable Coefficients. Frontiers in Physics, 0, 10, .	1.0	1
112	A high-order adaptive numerical algorithm for fractional diffusion wave equation on non-uniform meshes. Numerical Algorithms, 0, , .	1.1	1
113	Analytical solutions of conformable Drinfel'd–Sokolov–Wilson and Boiti Leon Pempinelli equations via sine–cosine method. Results in Physics, 2022, 42, 105990.	2.0	27
114	SEMI-ANALYTIC FIBONACCI POLYNOMIAL SOLUTION FOR VOLTERRA–FREDHOLM INTEGRAL EQUATION WITH ERROR ANALYSIS. Fractals, 0, , .	1.8	0

#	Article	IF	CITATIONS
115	Study of Multi-Term Pantograph Differential Equations of Arbitrary Order. Few-Body Systems, 2022, 63,	0.7	0
116	Homoclinic breather, M-shaped rational, multiwaves and their interactional solutions for fractional quadratic-cubic nonlinear SchrĶdinger equation. Optical and Quantum Electronics, 2022, 54, .	1.5	6
117	L3 approximation of Caputo derivative and its application to time-fractional wave equation-(I). Mathematics and Computers in Simulation, 2023, 205, 532-557.	2.4	6
118	Existence and nonexistence results for a class of nonâ€selfâ€adjoint fourthâ€order singular boundary value problems arising in real life. Mathematical Methods in the Applied Sciences, 2023, 46, 6077-6110.	1.2	1
119	Hybrid techniques for approximate analytical solution of space- and time-fractional telegraph equations. Pramana - Journal of Physics, 2023, 97, .	0.6	0
120	Effective Optimized Decomposition Algorithms for Solving Nonlinear Fractional Differential Equations. Journal of Computational and Nonlinear Dynamics, 2023, 18, .	0.7	2
121	Analytical and numerical solutions of time-fractional advection-diffusion-reaction equation. Applied Numerical Mathematics, 2023, 185, 549-570.	1.2	2
122	Analytical and numerical solution techniques for a class of time-fractional integro-partial differential equations. Numerical Algorithms, 2023, 94, 229-256.	1.1	3
123	Time-fractional generalized fifth-order KdV equation: Lie symmetry analysis and conservation laws. Frontiers in Physics, 0, 11, .	1.0	0
124	New modied Atangana-Baleanu fractional derivative applied to solve nonlinear fractional dierential equations. Physica Scripta, 2023, 98, 035202.	1.2	3
125	The asymptotic solutions of two-term linear fractional differential equations via Laplace transform. Mathematics and Computers in Simulation, 2023, 211, 394-412.	2.4	1