

Mustafa GÃ¼lsu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	An operational matrix method to solve linear Fredholmâ€“Volterra integro-differential equations with piecewise intervals. <i>Mathematical Sciences</i> , 2021, 15, 189-197.	1.7	3
2	New Numerical Approach for Solving Abelâ€™s Integral Equations. <i>Foundations of Computing and Decision Sciences</i> , 2021, 46, 255-271.	1.2	0
3	Numerical approach for solving linear Fredholm integro-differential equation with piecewise intervals by Bernoulli polynomials. <i>International Journal of Computer Mathematics</i> , 2018, 95, 2100-2111.	1.8	10
4	Numerical solution the fractional Bagleyâ€“Torvik equation arising in fluid mechanics. <i>International Journal of Computer Mathematics</i> , 2017, 94, 173-184.	1.8	26
5	An Operational Matrix Method for Solving a Class of Nonlinear Volterra Integro-Differential Equations by Operational Matrix Method. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 3279-3294.	1.6	3
6	Numerical solution of Abel equation using operational matrix method with Chebyshev polynomials. <i>Asian-European Journal of Mathematics</i> , 2017, 10, 1750053.	0.5	5
7	New wave simulations to the (3+1)-dimensional modified Kdv-Zakharov-Kuznetsov equation. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
8	The Approximate Solution of High-Order Nonlinear Ordinary Differential Equations by Improved Collocation Method with Terms of Shifted Chebyshev Polynomials. <i>International Journal of Applied and Computational Mathematics</i> , 2016, 2, 519-531.	1.6	11
9	Numerical solution of Riccati equation using operational matrix method with Chebyshev polynomials. <i>Asian-European Journal of Mathematics</i> , 2015, 08, 1550020.	0.5	0
10	An operational matrix method for solving Lane-Emden equations arising in astrophysics. <i>Mathematical Methods in the Applied Sciences</i> , 2014, 37, 2227-2235.	2.3	23
11	An approximation algorithm for the solution of the Laneâ€“Emden type equations arising in astrophysics and engineering using Hermite polynomials. <i>Computational and Applied Mathematics</i> , 2014, 33, 131-145.	1.3	18
12	Numerical approach for solving fractional Fredholm integro-differential equation. <i>International Journal of Computer Mathematics</i> , 2013, 90, 1413-1434.	1.8	13
13	A numerical approach for solving initial-boundary value problem describing the process of cooling of a semi-infinite body by radiation. <i>Applied Mathematical Modelling</i> , 2013, 37, 2709-2716.	4.2	1
14	Numerical approach for solving fractional relaxationâ€“oscillation equation. <i>Applied Mathematical Modelling</i> , 2013, 37, 5927-5937.	4.2	23
15	A Collocation Method for Solving Fractional Riccati Differential Equation. <i>Journal of Applied Mathematics</i> , 2013, 2013, 1-8.	0.9	3
16	A Collocation Method for Solving Fractional Riccati Differential Equation. <i>Advances in Applied Mathematics and Mechanics</i> , 2013, 5, 872-884.	1.2	3
17	A new Chebyshev polynomial approximation for solving delay differential equations. <i>Journal of Difference Equations and Applications</i> , 2012, 18, 1043-1065.	1.1	7
18	Laguerre polynomial approach for solving linear delay difference equations. <i>Applied Mathematics and Computation</i> , 2011, 217, 6765-6776.	2.2	53

#	ARTICLE	IF	CITATIONS
19	A collocation approach for the numerical solution of certain linear retarded and advanced integrodifferential equations with linear functional arguments. Numerical Methods for Partial Differential Equations, 2011, 27, 447-459.	3.6	4
20	Rational Chebyshev collocation method for solving higher-order linear ordinary differential equations. Numerical Methods for Partial Differential Equations, 2011, 27, 1130-1142.	3.6	15
21	A Taylor collocation method for solving high-order linear pantograph equations with linear functional argument. Numerical Methods for Partial Differential Equations, 2011, 27, 1628-1638.	3.6	12
22	A collocation approach for solving systems of linear Volterra integral equations with variable coefficients. Computers and Mathematics With Applications, 2011, 62, 755-769.	2.7	44
23	On the solution of the Abel equation of the second kind by the shifted Chebyshev polynomials. Applied Mathematics and Computation, 2011, 217, 4827-4833.	2.2	27
24	Solving high-order linear differential equations by a Legendre matrix method based on hybrid Legendre and Taylor polynomials. Numerical Methods for Partial Differential Equations, 2010, 26, 647-661.	3.6	3
25	A new Taylor collocation method for nonlinear Fredholm-Volterra integrodifferential equations. Numerical Methods for Partial Differential Equations, 2010, 26, 1006-1020.	3.6	9
26	Numerical solution of a class of complex differential equations by the Taylor collocation method in elliptic domains. Numerical Methods for Partial Differential Equations, 2010, 26, 1191-1205.	3.6	7
27	A new collocation method for solution of mixed linear integro-differential-difference equations. Applied Mathematics and Computation, 2010, 216, 2183-2198.	2.2	49
28	A Taylor polynomial approach for solving generalized pantograph equations with nonhomogenous term. International Journal of Computer Mathematics, 2008, 85, 1055-1063.	1.8	47
29	Approximate solution to linear complex differential equation by a new approximate approach. Applied Mathematics and Computation, 2007, 185, 636-645.	2.2	9
30	Polynomial solution of the most general linear Fredholm-Volterra integrodifferential-difference equations by means of Taylor collocation method. Applied Mathematics and Computation, 2007, 185, 646-657.	2.2	15
31	Taylor collocation method for solution of systems of high-order linear Fredholm-Volterra integro-differential equations. International Journal of Computer Mathematics, 2006, 83, 429-448.	1.8	31
32	A Taylor polynomial approach for solving differential-difference equations. Journal of Computational and Applied Mathematics, 2006, 186, 349-364.	2.0	54
33	Approximate solution of general high-order linear nonhomogeneous difference equations by means of Taylor collocation method. Applied Mathematics and Computation, 2006, 173, 683-693.	2.2	8
34	A finite difference approach for solution of Burgers's equation. Applied Mathematics and Computation, 2006, 175, 1245-1255.	2.2	44
35	On the solution of the Riccati equation by the Taylor matrix method. Applied Mathematics and Computation, 2006, 176, 414-421.	2.2	42
36	Approximate solution of complex differential equations for a rectangular domain with Taylor collocation method. Applied Mathematics and Computation, 2006, 177, 844-851.	2.2	9

#	ARTICLE	IF	CITATIONS
37	A Taylor collocation method for the numerical solution of complex differential equations with mixed conditions in elliptic domains. Applied Mathematics and Computation, 2006, 182, 498-508.	2.2	8
38	A matrix method for solving high-order linear difference equations with mixed argument using hybrid legendre and taylor polynomials. Journal of the Franklin Institute, 2006, 343, 647-659.	3.4	6
39	Approximations to the solution of linear Fredholm integrodifferentialâ€“difference equation of high order. Journal of the Franklin Institute, 2006, 343, 720-737.	3.4	24
40	The approximate solution of high-order linear difference equations with variable coefficients in terms of Taylor polynomials. Applied Mathematics and Computation, 2005, 168, 76-88.	2.2	40
41	A new polynomial approach for solving difference and Fredholm integro-difference equations with mixed argument. Applied Mathematics and Computation, 2005, 171, 332-344.	2.2	36
42	Numerical solution of Burgersâ€™ equation with restrictive Taylor approximation. Applied Mathematics and Computation, 2005, 171, 1192-1200.	2.2	26
43	Polynomial solution of the most general linear Fredholm integrodifferentialâ€“difference equations by means of Taylor matrix method. Complex Variables and Elliptic Equations, 2005, 50, 367-382.	0.2	25
44	Taylor polynomial solutions of systems of linear differential equations with variable coefficients. International Journal of Computer Mathematics, 2005, 82, 755-764.	1.8	35
45	A method for the approximate solution of the high-order linear difference equations in terms of Taylor polynomials. International Journal of Computer Mathematics, 2005, 82, 629-642.	1.8	22