

Murugesan K

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Dynamics of higher-order bright and dark rogue waves in a new (2+1)-dimensional integrable Boussinesq model. <i>Physica Scripta</i> , 2020, 95, 115213.	2.5	41
2	Computing solitary wave solutions of coupled nonlinear Hirota and Helmholtz equations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 560, 125114.	2.6	30
3	Analysis of different systems VIA Single-Term Walsh Series Method. <i>International Journal of Computer Mathematics</i> , 1990, 33, 171-179.	1.8	23
4	A multi-objective evolutionary algorithm for protein structure prediction with immune operators. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009, 12, 407-413.	1.6	20
5	Peristaltic Transport of a Casson Fluid in Contact with a Newtonian Fluid in a Circular Tube with Permeable Wall. <i>International Journal of Fluid Mechanics Research</i> , 2009, 36, 244-254.	0.4	19
6	Numerical solution of an industrial robot arm control problem using the RK?Butcher algorithm. <i>International Journal of Computer Applications in Technology</i> , 2004, 19, 132.	0.5	18
7	Benjamin-Ono equation: Rogue waves, generalized breathers, soliton bending, fission, and fusion. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	18
8	A comparison of extended runge-kutta formulae based on variety of means to solve system of ivps. <i>International Journal of Computer Mathematics</i> , 2001, 78, 225-252.	1.8	17
9	System of linear second order Volterra integro-differential equations using Single Term Walsh Series technique. <i>Applied Mathematics and Computation</i> , 2016, 273, 484-492.	2.2	16
10	A Fourth Order Embedded Runge-Kutta RKACeM(4,4) Method Based on Arithmetic and Centroidal Means with Error Control. <i>International Journal of Computer Mathematics</i> , 2002, 79, 247-269.	1.8	15
11	Optimal control of singular systems using the rk?butcher algorithm. <i>International Journal of Computer Mathematics</i> , 2004, 81, 239-249.	1.8	15
12	Computing wave solutions and conservation laws of conformable time-fractional Gardner and Benjamin?Ono equations. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	1.8	15
13	Analysis of different second order systems via runge-kutta method. <i>International Journal of Computer Mathematics</i> , 1999, 70, 477-493.	1.8	14
14	A study of second-order state-space systems of time-invariant and time-varying transistor circuits using the STWS technique. <i>International Journal of Electronics</i> , 2002, 89, 305-315.	1.4	14
15	Single-Term Walsh Series method for systems of linear Volterra integral equations of the second kind. <i>Applied Mathematics and Computation</i> , 2014, 228, 371-376.	2.2	14
16	Analysis of non-linear singular system from fluid dynamics using extended runge-kutta methods. <i>International Journal of Computer Mathematics</i> , 2000, 76, 239-266.	1.8	13
17	Numerical solution of second-order robot arm control problem using Runge?Kutta?Butcher algorithm. <i>International Journal of Computer Mathematics</i> , 2006, 83, 345-356.	1.8	13
18	Higher dimensional localized and periodic wave dynamics in an integrable (2+1)-dimensional deep water oceanic wave model. <i>Waves in Random and Complex Media</i> , 2023, 33, 78-97.	2.7	13

#	ARTICLE	IF	CITATIONS
19	Note on single-term Walsh series method for singular systems. IEE Proceedings D: Control Theory and Applications, 1992, 139, 347.	0.4	13
20	Numerical solution of Volterra integral-algebraic equations using block pulse functions. Applied Mathematics and Computation, 2015, 263, 165-170.	2.2	11
21	Magnetic field and vibration effects on the onset of thermal convection in a grade fluid permeated anisotropic porous module. Thermal Science and Engineering Progress, 2019, 10, 138-146.	2.7	10
22	Numerical Solutions of Delay Volterra Integral Equations Using Single-term Walsh Series Approach. International Journal of Applied and Computational Mathematics, 2017, 3, 2409-2421.	1.6	8
23	Method of Solving Linear System of Volterra Integro-Differential Equations Using the Single Term Walsh Series. International Journal of Applied and Computational Mathematics, 2017, 3, 549-559.	1.6	7
24	3D modeling of natural convective heat transfer from a varying rectangular heat generating source. Journal of Thermal Analysis and Calorimetry, 2019, 138, 597-608.	3.6	7
25	Dynamics of optical solitons and conservation laws of a new (2+1)-dimensional integrable nonlinear evolution equation in deep water oceanic waves. Modern Physics Letters B, 2020, 34, 2050068.	1.9	7
26	Thermal state of electronic assemblies equipped with an array of heaters and coolers (HACs) subjected to natural convection. Thermal Science and Engineering Progress, 2019, 11, 317-324.	2.7	6
27	Error Free Butcher Algorithms for Linear Electrical Circuits. ETRI Journal, 2005, 27, 195-205.	2.0	5
28	Observer design of singular systems (transistor circuits) using the RKâ€“Butcher algorithms. International Journal of Computer Mathematics, 2005, 82, 111-123.	1.8	4
29	Non-linear singular systems using RKâ€“Butcher algorithms. International Journal of Computer Mathematics, 2006, 83, 131-142.	1.8	4
30	RKâ€“Butcher algorithms for singular system-based electronic circuit. International Journal of Computer Mathematics, 2009, 86, 523-536.	1.8	4
31	STWS approach for Hammerstein system of nonlinear Volterra integral equations of the second kind. International Journal of Computer Mathematics, 2017, 94, 1867-1878.	1.8	4
32	Single Term Walsh Series Method for the System of Nonlinear Delay Volterra Integro-Differential Equations Describing Biological Species Living Together. International Journal of Applied and Computational Mathematics, 2018, 4, 1.	1.6	4
33	Optimal control of time-varying singular systems using the RKâ€“Butcher algorithm. International Journal of Computer Mathematics, 2005, 82, 617-627.	1.8	2
34	CNN Based Hole Filler Template Design Using Numerical Integration Techniques. Lecture Notes in Computer Science, 2007, , 490-500.	1.3	2
35	A mathematical model for human papillomavirus and its impact on cervical cancer in India. Journal of Applied Mathematics and Computing, 2023, 69, 753-770.	2.5	2
36	Numerical Strategy For The System Of Second Order Ivps Using RK Method Based On Centroidal Mean. International Journal of Computer Mathematics, 2003, 80, 233-241.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Numerical strategies for the system of first-order IVPS using the RK“Butcher algorithm. International Journal of Computer Mathematics, 2005, 82, 1379-1387.	1.8	1
38	Performance-Enhanced Caching Scheme for Web Clusters for Dynamic Content. International Journal of Business Data Communications and Networking, 2011, 7, 16-36.	0.7	1
39	A Numerical Method for a Class of Linear Fractional Differential Equations. Communications in Computer and Information Science, 2012, , 360-366.	0.5	0
40	Numerical Solutions of Non-Linear System of Higher Order Volterra Integro-Differential Equations using Generalized STWS Technique. Differential Equations and Dynamical Systems, 2017, 29, 609.	1.0	0
41	Single-Term Walsh Series Approach for the System of Linear and Non-linear Volterra Integral Equations of First Kind. International Journal of Applied and Computational Mathematics, 2017, 3, 2639-2653.	1.6	0