

# K Murugesan

## List of Publications by Year in descending order

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papers

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docs citations

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times ranked

189  
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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	Analysis of different systems VIA Single-Term Walsh Series Method. <i>International Journal of Computer Mathematics</i> , 1990, 33, 171-179.	1.8	23
3	Analysis of electronic circuits using the single-term Walsh series approach. <i>International Journal of Electronics</i> , 1990, 69, 327-332.	1.4	21
4	Optimal control of singular systems via single-term walsh series. <i>International Journal of Computer Mathematics</i> , 1992, 43, 153-159.	1.8	21
5	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
6	Benjamin-Ono equation: Rogue waves, generalized breathers, soliton bending, fission, and fusion. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	18
7	Painlevé analysis and higher-order rogue waves of a generalized (3+1)-dimensional shallow water wave equation. <i>Physica Scripta</i> , 2022, 97, 055204.	2.5	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	Analysis of second order multivariate linear system using single term walsh series technique and runge kutta method. <i>International Journal of Computer Mathematics</i> , 1999, 72, 367-374.	1.8	16
10	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
11	Analysis of nonlinear singular systems via stws method. <i>International Journal of Computer Mathematics</i> , 1990, 36, 9-12.	1.8	15
12	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
13	Optimal control of singular systems using the rk?butcher algorithm. <i>International Journal of Computer Mathematics</i> , 2004, 81, 239-249.	1.8	15
14	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
15	Analysis of different second order systems via runge-kutta method. <i>International Journal of Computer Mathematics</i> , 1999, 70, 477-493.	1.8	14
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Numerical solution of a singular nonlinear system from fluid dynamics. <i>International Journal of Computer Mathematics</i> , 1991, 38, 211-218.	1.8	10
22	Comparison of Numerical Integration Algorithms in Raster CNN Simulation. <i>Lecture Notes in Computer Science</i> , 2004, , 115-122.	1.3	10
23	Magnetic field and vibration effects on the onset of thermal convection in a grade fluid permeated anisotropic porous module. <i>Thermal Science and Engineering Progress</i> , 2019, 10, 138-146.	2.7	10
24	Numerical Solutions of Delay Volterra Integral Equations Using Single-term Walsh Series Approach. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 2409-2421.	1.6	8
25	Method of Solving Linear System of Volterra Integro-Differential Equations Using the Single Term Walsh Series. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 549-559.	1.6	7
26	3D modeling of natural convective heat transfer from a varying rectangular heat generating source. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 597-608.	3.6	7
27	Dynamics of optical solitons and conservation laws of a new (2+1)-dimensional integrable nonlinear evolution equation in deep water oceanic waves. <i>Modern Physics Letters B</i> , 2020, 34, 2050068.	1.9	7
28	Analysis of transistor circuits using the single-term Walsh series technique. <i>International Journal of Electronics</i> , 1991, 71, 397-401.	1.4	6
29	Thermal state of electronic assemblies equipped with an array of heaters and coolers (HACs) subjected to natural convection. <i>Thermal Science and Engineering Progress</i> , 2019, 11, 317-324.	2.7	6
30	Error Free Butcher Algorithms for Linear Electrical Circuits. <i>ETRI Journal</i> , 2005, 27, 195-205.	2.0	5
31	Observer design of singular systems (transistor circuits) using the RK-Butcher algorithms. <i>International Journal of Computer Mathematics</i> , 2005, 82, 111-123.	1.8	4
32	Non-linear singular systems using RK-Butcher algorithms. <i>International Journal of Computer Mathematics</i> , 2006, 83, 131-142.	1.8	4
33	RK-Butcher algorithms for singular system-based electronic circuit. <i>International Journal of Computer Mathematics</i> , 2009, 86, 523-536.	1.8	4
34	STWS approach for Hammerstein system of nonlinear Volterra integral equations of the second kind. <i>International Journal of Computer Mathematics</i> , 2017, 94, 1867-1878.	1.8	4
35	Single Term Walsh Series Method for the System of Nonlinear Delay Volterra Integro-Differential Equations Describing Biological Species Living Together. <i>International Journal of Applied and Computational Mathematics</i> , 2018, 4, 1.	1.6	4
36	A note on constrained controllability of linear descriptor systems. <i>Optimization</i> , 1992, 25, 77-81.	1.7	2

#	ARTICLE	IF	CITATIONS
37	Optimal control of time-varying singular systems using the RKâ€“Butcher algorithm. International Journal of Computer Mathematics, 2005, 82, 617-627.	1.8	2
38	CNN Based Hole Filler Template Design Using Numerical Integration Techniques. Lecture Notes in Computer Science, 2007, , 490-500.	1.3	2
39	On the Hydromagnetic Flow between Two Rotating Eccentric Cylinders. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1994, 74, 57-61.	1.6	1
40	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
41	Numerical strategies for the system of first-order IVPS using the RKâ€“Butcher algorithm. International Journal of Computer Mathematics, 2005, 82, 1379-1387.	1.8	1
42	Simulation of Non-linear Singular System Using RK-Butcher Algorithm. Communications in Computer and Information Science, 2011, , 625-632.	0.5	1
43	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
44	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