

# K Murugesan

## List of Publications by Year in descending order

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papers

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623734

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docs citations

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times ranked

189  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Benjamin-Ono equation: Rogue waves, generalized breathers, soliton bending, fission, and fusion. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	18
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	Numerical Solutions of Non-Linear System of Higher Order Volterra Integro-Differential Equations using Generalized STWS Technique. <i>Differential Equations and Dynamical Systems</i> , 2017, 29, 609.	1.0	0
14	Single-Term Walsh Series Approach for the System of Linear and Non-linear Volterra Integral Equations of First Kind. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 2639-2653.	1.6	0
15	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
16	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
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	Simulation of Non-linear Singular System Using RK-Butcher Algorithm. <i>Communications in Computer and Information Science</i> , 2011, , 625-632.	0.5	1

#	ARTICLE	IF	CITATIONS
19	RKâ€“Butcher algorithms for singular system-based electronic circuit. International Journal of Computer Mathematics, 2009, 86, 523-536.	1.8	4
20	CNN Based Hole Filler Template Design Using Numerical Integration Techniques. Lecture Notes in Computer Science, 2007, , 490-500.	1.3	2
21	Numerical solution of second-order robot arm control problem using Rungeâ€“Kuttaâ€“Butcher algorithm. International Journal of Computer Mathematics, 2006, 83, 345-356.	1.8	13
22	Non-linear singular systems using RKâ€“Butcher algorithms. International Journal of Computer Mathematics, 2006, 83, 131-142.	1.8	4
23	Error Free Butcher Algorithms for Linear Electrical Circuits. ETRI Journal, 2005, 27, 195-205.	2.0	5
24	Observer design of singular systems (transistor circuits) using the RKâ€“Butcher algorithms. International Journal of Computer Mathematics, 2005, 82, 111-123.	1.8	4
25	Optimal control of time-varying singular systems using the RKâ€“Butcher algorithm. International Journal of Computer Mathematics, 2005, 82, 617-627.	1.8	2
26	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
27	Comparison of Numerical Integration Algorithms in Raster CNN Simulation. Lecture Notes in Computer Science, 2004, , 115-122.	1.3	10
28	Optimal control of singular systems using the rkâ€“butcher algorithm. International Journal of Computer Mathematics, 2004, 81, 239-249.	1.8	15
29	Numerical solution of an industrial robot arm control problem using the RK?Butcher algorithm. International Journal of Computer Applications in Technology, 2004, 19, 132.	0.5	18
30	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
31	A Fourth Order Embedded Runge-Kutta RKACeM(4,4) Method Based on Arithmetic and Centroidal Means with Error Control. International Journal of Computer Mathematics, 2002, 79, 247-269.	1.8	15
32	A study of second-order state-space systems of time-invariant and time-varying transistor circuits using the STWS technique. International Journal of Electronics, 2002, 89, 305-315.	1.4	14
33	A comparison of extended runge-kutta formulae based on variety of means to solve system of ivps. International Journal of Computer Mathematics, 2001, 78, 225-252.	1.8	17
34	Analysis of non-linear singular system from fluid dynamics using extended runge-kutta methods. International Journal of Computer Mathematics, 2000, 76, 239-266.	1.8	13
35	Analysis of different second order systems via runge-kutta method. International Journal of Computer Mathematics, 1999, 70, 477-493.	1.8	14
36	Analysis of second order multivariate linear system using single term walsh series technique and runge kutta method. International Journal of Computer Mathematics, 1999, 72, 367-374.	1.8	16

#	ARTICLE	IF	CITATIONS
37	On the Hydromagnetic Flow between Two Rotating Eccentric Cylinders. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1994, 74, 57-61.	1.6	1
38	A note on constrained controllability of linear descriptor systems. Optimization, 1992, 25, 77-81.	1.7	2
39	Optimal control of singular systems via single-term walsh series. International Journal of Computer Mathematics, 1992, 43, 153-159.	1.8	21
40	Analysis of transistor circuits using the single-term Walsh series technique. International Journal of Electronics, 1991, 71, 397-401.	1.4	6
41	Numerical solution of a singular nonlinear system from fluid dynamics. International Journal of Computer Mathematics, 1991, 38, 211-218.	1.8	10
42	Analysis of electronic circuits using the single-term Walsh series approach. International Journal of Electronics, 1990, 69, 327-332.	1.4	21
43	Analysis of nonlinear singular systems via stws method. International Journal of Computer Mathematics, 1990, 36, 9-12.	1.8	15
44	Analysis of different systems VIA Single-Term Walsh Series Method. International Journal of Computer Mathematics, 1990, 33, 171-179.	1.8	23