

Malik Zawwar Hussain

List of Publications by Year in descending order

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47
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160
citing authors

#	ARTICLE	IF	CITATIONS
1	An approximation of one-dimensional nonlinear Kortweg de Vries equation of order nine. PLoS ONE, 2022, 17, e0262157.	2.5	0
2	A reliable algorithm to compute the approximate solution of KdV-type partial differential equations of order seven. PLoS ONE, 2021, 16, e0244027.	2.5	9
3	Energy-Minimizing Cubic H-Bäckzier Curve. Journal of Testing and Evaluation, 2021, 49, 2707-2729.	0.7	0
4	A simple algorithm for numerical solution of nonlinear parabolic partial differential equations. Engineering With Computers, 2020, 36, 1763-1775.	6.1	5
5	Numerical Solution of Nonlinear Fifth-Order KdV-Type Partial Differential Equations via Haar Wavelet. International Journal of Applied and Computational Mathematics, 2020, 6, 1.	1.6	3
6	Simulation and modeling of diffraction pattern of crystallography: a fractal approach. Computational and Applied Mathematics, 2020, 39, 1.	2.2	0
7	Convexity-Preserving Scattered Data Interpolation Scheme Using Side-Vertex Method. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	1.6	1
8	A quadratic trigonometric spline for curve modeling. PLoS ONE, 2019, 14, e0208015.	2.5	6
9	Adaptive image interpolation technique based on cubic trigonometric B-spline representation. IET Image Processing, 2018, 12, 769-777.	2.5	11
10	Shape-Preserving Positive Trigonometric Spline Curves. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 763-775.	1.5	0
11	Image interpolation by rational ball cubic B-spline representation and genetic algorithm. AEJ - Alexandria Engineering Journal, 2018, 57, 931-937.	6.4	15
12	Visualization of Constrained Data Using Trigonometric Splines. , 2017, , .		1
13	A Quadratic Trigonometric Nu Spline with Shape Control. International Journal of Image and Graphics, 2017, 17, 1750015.	1.5	4
14	G2- Approximation of Parabolic Arcs. , 2017, , .		1
15	A Rational Quadratic Trigonometric Spline with Interval Shape Control. , 2017, , .		0
16	Computer Aided Design Using a Rational Quadratic Trigonometric Spline with Interval Shape Control. , 2017, , .		1
17	Quadratic trigonometric B-spline for image interpolation using GA. PLoS ONE, 2017, 12, e0179721.	2.5	13
18	A rational cubic trigonometric approximation scheme of the generalized Cornu spirals. SpringerPlus, 2016, 5, 946.	1.2	0

#	ARTICLE	IF	CITATIONS
19	Modeling of 2D Objects with Weighted-Quadratic Trigonometric Spline. , 2016, , .		5
20	Outline capturing using rational functions with the help of genetic algorithm. Applied Mathematics and Computation, 2016, 274, 661-678.	2.2	12
21	Shape-Preserving Rational Interpolation Scheme for Regular Surface Data. International Journal of Applied and Computational Mathematics, 2016, 2, 713-747.	1.6	0
22	Shape preserving curves using quadratic trigonometric splines. Applied Mathematics and Computation, 2015, 265, 1126-1144.	2.2	7
23	Shape Designing of Engineering Images Using Rational Spline Interpolation. Advances in Materials Science and Engineering, 2015, 2015, 1-9.	1.8	2
24	\mathbb{R}^3 GC 1 Shape-Preserving Trigonometric Surfaces. Journal of Mathematical Imaging and Vision, 2015, 53, 21-41.	1.3	3
25	Interpolation of Discrete Time Signals Using Cubic Spline Function. , 2015, , .		15
26	Shape Preserving Positive Rational Trigonometric Spline Surfaces. , 2015, , .		0
27	Reverse Engineering of Planar Objects Using Imperialist Competitive Algorithm. , 2015, , .		0
28	C^1 Positive Surface over Positive Scattered Data Sites. PLoS ONE, 2015, 10, e0120658.	2.5	5
29	Monotone Data Visualization Using Rational Trigonometric Spline Interpolation. Scientific World Journal, The, 2014, 2014, 1-14.	2.1	4
30	Shape-preserving trigonometric functions. Computational and Applied Mathematics, 2014, 33, 411-431.	1.3	23
31	Shape Preserving Rational Trigonometric Spline Curves. , 2014, , .		3
32	Two Methods of Object Designing by Rational Splines. , 2014, , .		0
33	A Novel Approach for Surface to Surface Intersection Approximation. , 2013, , .		1
34	Positive Data Visualization Using Trigonometric Function. Journal of Applied Mathematics, 2012, 2012, 1-19.	0.9	26
35	Monotony Preserving Scattered Data Interpolation Scheme Using Side-vertex Method. , 2012, , .		0
36	Shape-preserving curve interpolation. International Journal of Computer Mathematics, 2012, 89, 35-53.	1.8	47

#	ARTICLE	IF	CITATIONS
37	Shape preserving rational bi-cubic function. Egyptian Informatics Journal, 2012, 13, 147-154.	6.8	0
38	Positivity-preserving scattered data interpolation scheme using the side-vertex method. Applied Mathematics and Computation, 2012, 218, 7898-7910.	2.2	8
39	Rational Bi-cubic Functions Preserving 3D Positive Data. , 2011, , .		1
40	Shape preserving rational cubic spline for positive and convex data. Egyptian Informatics Journal, 2011, 12, 231-236.	6.8	23
41	C 1 positivity preserving scattered data interpolation using rational Bernstein-BÄ©zier triangular patch. Journal of Applied Mathematics and Computing, 2011, 35, 281-293.	2.5	7
42	Visualization of Positive Data by Rational Cubic Spline Interpolant. , 2010, , .		0
43	Approximating Boundary of Bitmap Characters Using Genetic Algorithm. , 2010, , .		2
44	Monotone piecewise rational cubic interpolation. International Journal of Computer Mathematics, 2009, 86, 423-430.	1.8	28
45	Visualization of data preserving monotonicity. Applied Mathematics and Computation, 2007, 190, 1353-1364.	2.2	26
46	Visualization of 3D data preserving convexity. Journal of Applied Mathematics and Computing, 2007, 23, 397-410.	2.5	7
47	Data visualization using rational spline interpolation. Journal of Computational and Applied Mathematics, 2006, 189, 513-525.	2.0	47