

Malik Zawwar Hussain

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

372
citations

933447

10
h-index

839539

18
g-index

47
all docs

47
docs citations

47
times ranked

160
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Data visualization using rational spline interpolation. Journal of Computational and Applied Mathematics, 2006, 189, 513-525. | 2.0 | 47 |
| 2 | Shape-preserving curve interpolation. International Journal of Computer Mathematics, 2012, 89, 35-53. | 1.8 | 47 |
| 3 | Monotone piecewise rational cubic interpolation. International Journal of Computer Mathematics, 2009, 86, 423-430. | 1.8 | 28 |
| 4 | Visualization of data preserving monotonicity. Applied Mathematics and Computation, 2007, 190, 1353-1364. | 2.2 | 26 |
| 5 | Positive Data Visualization Using Trigonometric Function. Journal of Applied Mathematics, 2012, 2012, 1-19. | 0.9 | 26 |
| 6 | Shape preserving rational cubic spline for positive and convex data. Egyptian Informatics Journal, 2011, 12, 231-236. | 6.8 | 23 |
| 7 | Shape-preserving trigonometric functions. Computational and Applied Mathematics, 2014, 33, 411-431. | 1.3 | 23 |
| 8 | Interpolation of Discrete Time Signals Using Cubic Spline Function. , 2015, , . | | 15 |
| 9 | Image interpolation by rational ball cubic B-spline representation and genetic algorithm. AEJ - Alexandria Engineering Journal, 2018, 57, 931-937. | 6.4 | 15 |
| 10 | Quadratic trigonometric B-spline for image interpolation using GA. PLoS ONE, 2017, 12, e0179721. | 2.5 | 13 |
| 11 | Outline capturing using rational functions with the help of genetic algorithm. Applied Mathematics and Computation, 2016, 274, 661-678. | 2.2 | 12 |
| 12 | Adaptive image interpolation technique based on cubic trigonometric B-spline representation. IET Image Processing, 2018, 12, 769-777. | 2.5 | 11 |
| 13 | 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 |
| 14 | Positivity-preserving scattered data interpolation scheme using the side-vertex method. Applied Mathematics and Computation, 2012, 218, 7898-7910. | 2.2 | 8 |
| 15 | Visualization of 3D data preserving convexity. Journal of Applied Mathematics and Computing, 2007, 23, 397-410. | 2.5 | 7 |
| 16 | C 1 positivity preserving scattered data interpolation using rational Bernstein-Bézier triangular patch. Journal of Applied Mathematics and Computing, 2011, 35, 281-293. | 2.5 | 7 |
| 17 | Shape preserving curves using quadratic trigonometric splines. Applied Mathematics and Computation, 2015, 265, 1126-1144. | 2.2 | 7 |
| 18 | A quadratic trigonometric spline for curve modeling. PLoS ONE, 2019, 14, e0208015. | 2.5 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Modeling of 2D Objects with Weighted-Quadratic Trigonometric Spline. , 2016, , . | | 5 |
| 20 | A simple algorithm for numerical solution of nonlinear parabolic partial differential equations. Engineering With Computers, 2020, 36, 1763-1775. | 6.1 | 5 |
| 21 | C ¹ Positive Surface over Positive Scattered Data Sites. PLoS ONE, 2015, 10, e0120658. | 2.5 | 5 |
| 22 | Monotone Data Visualization Using Rational Trigonometric Spline Interpolation. Scientific World Journal, The, 2014, 2014, 1-14. | 2.1 | 4 |
| 23 | A Quadratic Trigonometric Nu Spline with Shape Control. International Journal of Image and Graphics, 2017, 17, 1750015. | 1.5 | 4 |
| 24 | Shape Preserving Rational Trigonometric Spline Curves. , 2014, , . | | 3 |
| 25 | Shape-Preserving Trigonometric Surfaces. Journal of Mathematical Imaging and Vision, 2015, 53, 21-41. | 1.3 | 3 |
| 26 | 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 |
| 27 | Approximating Boundary of Bitmap Characters Using Genetic Algorithm. , 2010, , . | | 2 |
| 28 | Shape Designing of Engineering Images Using Rational Spline Interpolation. Advances in Materials Science and Engineering, 2015, 2015, 1-9. | 1.8 | 2 |
| 29 | Rational Bi-cubic Functions Preserving 3D Positive Data. , 2011, , . | | 1 |
| 30 | A Novel Approach for Surface to Surface Intersection Approximation. , 2013, , . | | 1 |
| 31 | Visualization of Constrained Data Using Trigonometric Splines. , 2017, , . | | 1 |
| 32 | G ² - Approximation of Parabolic Arcs. , 2017, , . | | 1 |
| 33 | Computer Aided Design Using a Rational Quadratic Trigonometric Spline with Interval Shape Control. , 2017, , . | | 1 |
| 34 | Convexity-Preserving Scattered Data Interpolation Scheme Using Side-Vertex Method. International Journal of Applied and Computational Mathematics, 2019, 5, 1. | 1.6 | 1 |
| 35 | Visualization of Positive Data by Rational Cubic Spline Interpolant. , 2010, , . | | 0 |
| 36 | Monotony Preserving Scattered Data Interpolation Scheme Using Side-vertex Method. , 2012, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Shape preserving rational bi-cubic function. Egyptian Informatics Journal, 2012, 13, 147-154. | 6.8 | 0 |
| 38 | Two Methods of Object Designing by Rational Splines. , 2014, , . | | 0 |
| 39 | Shape Preserving Positive Rational Trigonometric Spline Surfaces. , 2015, , . | | 0 |
| 40 | Reverse Engineering of Planar Objects Using Imperialist Competitive Algorithm. , 2015, , . | | 0 |
| 41 | A rational cubic trigonometric approximation scheme of the generalized Cornu spirals. SpringerPlus, 2016, 5, 946. | 1.2 | 0 |
| 42 | Shape-Preserving Rational Interpolation Scheme for Regular Surface Data. International Journal of Applied and Computational Mathematics, 2016, 2, 713-747. | 1.6 | 0 |
| 43 | A Rational Quadratic Trigonometric Spline with Interval Shape Control. , 2017, , . | | 0 |
| 44 | Shape-Preserving Positive Trigonometric Spline Curves. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 763-775. | 1.5 | 0 |
| 45 | Simulation and modeling of diffraction pattern of crystallography: a fractal approach. Computational and Applied Mathematics, 2020, 39, 1. | 2.2 | 0 |
| 46 | Energy-Minimizing Cubic H-Bä©zier Curve. Journal of Testing and Evaluation, 2021, 49, 2707-2729. | 0.7 | 0 |
| 47 | An approximation of one-dimensional nonlinear Kortweg de Vries equation of order nine. PLoS ONE, 2022, 17, e0262157. | 2.5 | 0 |