

Muhammad Sarfraz

List of Publications by Year in descending order

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99
papers

732
citations

623188

14
h-index

610482

24
g-index

104
all docs

104
docs citations

104
times ranked

257
citing authors

#	ARTICLE	IF	CITATIONS
1	A rational cubic spline with tension. Computer Aided Geometric Design, 1990, 7, 1-13.	0.5	79
2	Positivity-preserving interpolation of positive data by rational cubics. Journal of Computational and Applied Mathematics, 2008, 218, 446-458.	1.1	67
3	Positive data modeling using spline function. Applied Mathematics and Computation, 2010, 216, 2036-2049.	1.4	55
4	Shape-preserving curve interpolation. International Journal of Computer Mathematics, 2012, 89, 35-53.	1.0	47
5	Curves and surfaces for computer aided design using C ² rational cubic splines. Engineering With Computers, 1995, 11, 94-102.	3.5	35
6	Monotone piecewise rational cubic interpolation. International Journal of Computer Mathematics, 2009, 86, 423-430.	1.0	28
7	A C ² rational cubic spline alternative to the nurbs. Computers and Graphics, 1992, 16, 69-77.	1.4	27
8	Cubic spline curves with shape control. Computers and Graphics, 1994, 18, 707-713.	1.4	26
9	Image Interpolation Using a Rational Bi-Cubic Ball. Mathematics, 2019, 7, 1045.	1.1	26
10	SOME ALGORITHMS FOR CURVE DESIGN AND AUTOMATIC OUTLINE CAPTURING OF IMAGES. International Journal of Image and Graphics, 2004, 04, 301-324.	1.2	23
11	Shape preserving rational cubic spline for positive and convex data. Egyptian Informatics Journal, 2011, 12, 231-236.	4.4	23
12	Designing objects with a spline. International Journal of Computer Mathematics, 2010, 87, 797-817.	1.0	22
13	A NEW APPROACH TO CORNER DETECTION. , 2006, , 528-533.		21
14	Skew Estimation and Correction of Text Using Bounding Box. , 2008, , .		17
15	Capturing outlines of 2D objects with Bézier cubic approximation. Image and Vision Computing, 2009, 27, 704-712.	2.7	17
16	Interactive Shape Control with Rational Cubic Splines. Computer-Aided Design and Applications, 2004, 1, 709-717.	0.4	16
17	Vectorizing outlines of generic shapes by cubic spline using simulated annealing. International Journal of Computer Mathematics, 2010, 87, 1736-1751.	1.0	16
18	Representing Shapes by Fitting Data using an Evolutionary Approach. Computer-Aided Design and Applications, 2004, 1, 179-185.	0.4	14

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19	Weighted Nu splines with local support basis functions. Computers and Graphics, 2004, 28, 539-549.	1.4	13
20	A randomized knot insertion algorithm for outline capture of planar images using cubic spline. , 2007, , .		13
21	Outline capturing using rational functions with the help of genetic algorithm. Applied Mathematics and Computation, 2016, 274, 661-678.	1.4	12
22	Arabic Handwriting Recognition Using Projection Profile and Genetic Approach. , 2009, , .		11
23	Arabic character recognition using particle swarm optimization with selected and weighted moment invariants. , 2007, , .		8
24	Positivity-preserving scattered data interpolation scheme using the side-vertex method. Applied Mathematics and Computation, 2012, 218, 7898-7910.	1.4	8
25	Shape preserving curves using quadratic trigonometric splines. Applied Mathematics and Computation, 2015, 265, 1126-1144.	1.4	7
26	On Offline Arabic Character Recognition. , 2005, , 1-18.		6
27	Improving Mine Recognition through Processing and Dempster-Shafer Fusion of Multisensor Data. , 2005, , 319-343.		6
28	Evaluation Approach of Arabic Character Recognition. International Journal of Computer Vision and Image Processing, 2011, 1, 58-77.	0.3	6
29	A quadratic trigonometric weighted spline with local support basis functions. AEJ - Alexandria Engineering Journal, 2018, 57, 1041-1049.	3.4	6
30	A quadratic trigonometric spline for curve modeling. PLoS ONE, 2019, 14, e0208015.	1.1	6
31	Shadow detection of the satellite images of earth using ratio image pixels. Earth Science Informatics, 2021, 14, 377-392.	1.6	6
32	Modeling of 2D Objects with Weighted-Quadratic Trigonometric Spline. , 2016, , .		5
33	Two Approaches for Vectorizing Image Outlines. International Journal of Machine Learning and Computing, 2012, , 301-307.	0.8	5
34	A quadratic trigonometric B-Spline as an alternate to cubic B-spline. AEJ - Alexandria Engineering Journal, 2022, 61, 11433-11443.	3.4	5
35	Conceptual Data Classification: Application for Knowledge Extraction. , 2005, , 453-467.		4
36	License Plate Recognition System: Saudi Arabian Case. , 2005, , 19-32.		4

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37	Constraint-Based Visualization of Spatiotemporal Databases. , 2005, , 263-276.		4
38	A Quadratic Trigonometric Nu Spline with Shape Control. International Journal of Image and Graphics, 2017, 17, 1750015.	1.2	4
39	Introductory Chapter: On Digital Image Processing. , 2020, , .		4
40	Weighted Nu Splines: An Alternative to NURBS. , 2005, , 81-95.		3
41	Shape Preserving Rational Trigonometric Spline Curves. , 2014, , .		3
42	A Comparative Study on Shadow Detection Methods Based on Features. , 2018, , .		3
43	An Approach to License Plate Recognition System Using Neural Network. Advances in Computer and Electrical Engineering Book Series, 2019, , 20-36.	0.2	3
44	Modeling of Objects Using Conic Splines. Journal of Software Engineering and Applications, 2013, 06, 67-72.	0.8	2
45	Shape Designing of Engineering Images Using Rational Spline Interpolation. Advances in Materials Science and Engineering, 2015, 2015, 1-9.	1.0	2
46	Intelligent Recognition in Medical Pattern Understanding and Cognitive Analysis. , 2005, , 257-274.		1
47	Hybrid Fingerprint Recognition Using Minutiae and Shape. , 2005, , 119-130.		1
48	Pose-Invariant Face Recognition Using Subspace Techniques. , 2005, , 169-200.		1
49	Personal Authentication Using the Fusion of Multiple Palm-Print Features. , 2005, , 131-143.		1
50	Intelligent Iris Recognition Using Neural Networks. , 2005, , 145-167.		1
51	An Intelligent Online Signature Verification System. , 2005, , 99-117.		1
52	Family of G2 Spiral Transition between Two Circles. , 2005, , 133-151.		1
53	Intuitive and Precise Solid Modeling in a Virtual Reality Environment. , 2005, , 185-202.		1
54	Computational Methods for Geometric Processing of Surfaces: Blending, Offsetting, Intersection, Implicitization. , 2005, , 69-80.		1

#	ARTICLE	IF	CITATIONS
55	A Shape Preserving Representation for Rational Curves with Efficient Evaluation Algorithm. , 2005, , 39-54.		1
56	Computer Aided Design Using a Rational Quadratic Trigonometric Spline with Interval Shape Control. , 2017, , .		1
57	Shape Control & Designing Objects. IFAC-PapersOnLine, 2018, 51, 316-322.	0.5	1
58	Classification of Eyes Based on Fuzzy Logic. International Journal of Cognitive Informatics and Natural Intelligence, 2020, 14, 101-112.	0.4	1
59	Detecting Corner Features of Planar Objects. Advances in Computational Intelligence and Robotics Book Series, 2014, , 262-279.	0.4	1
60	Topological Segmentation and Smoothing of Discrete Curve Skeletons. , 2005, , 389-409.		0
61	Intelligent Recognition: Components of the Short-Time Fourier Transform Vs. Conventional Approaches. , 2005, , 439-451.		0
62	Cryptographic Communications with Chaotic Semiconductor Lasers. , 2005, , 469-484.		0
63	Developmental Vision: Adaptive Recognition of Human Faces by Humanoid Robots. , 2005, , 201-239.		0
64	Empirical Study on Appearance-Based Binary Age Classification. , 2005, , 241-255.		0
65	The Roadmap for Recognizing Regions of Interest in Medical Images. , 2005, , 275-295.		0
66	Feature Extraction and Compression with Discriminative and Nonlinear Classifiers and Applications in Speech Recognition. , 2005, , 297-318.		0
67	Fast Object Recognition Using Dynamic Programming from a Combination of Salient Line Groups. , 2005, , 345-361.		0
68	Algorithms for Extracting Textual Characters in Color Video. , 2005, , 33-49.		0
69	Separation of Handwritten Touching Digits: A Multiagents Approach. , 2005, , 51-66.		0
70	Prototype-Based Handwriting Recognition Using Shape and Execution Prototypes. , 2005, , 67-88.		0
71	Logo Detection in Document Images with Complex Backgrounds. , 2005, , 89-98.		0
72	Holo-Extraction and Intelligent Recognition of Digital Curves Scanned from Paper Drawings. , 2005, , 363-388.		0

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73	Piecewise Power Basis Conversion of Dynamic B-Spline Curves and Surfaces. , 2005, , 55-68.		0
74	Applications of Clifford-Valued Neural Networks to Pattern Classification and Pose Estimation. , 2005, , 411-437.		0
75	Modifying the Shape of Cubic B-Spline and NURBS Curves by Means of Knots. , 2005, , 299-313.		0
76	Planar Development of Digital Free-Form Surfaces. , 2005, , 19-38.		0
77	Free Form Modeling Method Based on Silhouette and Boundary Lines. , 2005, , 175-183.		0
78	Generation of Parting Surfaces Using Subdivision Technique. , 2005, , 97-106.		0
79	Virtual Sculpting and Deformable Volume Modeling. , 2005, , 167-174.		0
80	Triadic Subdivision of Non Uniform Powell-Sabin Splines. , 2005, , 107-119.		0
81	Efficient Simplification of Triangular Meshes. , 2005, , 203-215.		0
82	Irregular Topology Spline Surfaces and Texture Mapping. , 2005, , 241-249.		0
83	Surface Interpolation Scheme by Distance Blending over Convex Sets. , 2005, , 121-131.		0
84	Segmentation of Scanned Surfaces: Improved Extraction of Planes. , 2005, , 251-262.		0
85	Surface Oriented Triangulation of Unorganized 3D Points Based on Laszlo's Algorithm. , 2005, , 277-297.		0
86	Optimal Hierarchical Adaptive Mesh Construction Using FCO Sampling. , 2005, , 153-165.		0
87	A Multiresolution Framework for NUBS. , 2005, , 229-240.		0
88	Multiresolution and Diffusion Methods Applied to Surface Reconstruction Based on T-Surfaces Framework. , 2005, , 217-228.		0
89	Polygonal Subdivision Curves for Computer Graphics and Geometric Modeling. , 2005, , 1-17.		0
90	Capturing Outlines of Planar Images by Cubic Spline using Stochastic Evolution. , 2007, , .		0

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91	Capturing Outlines of Planar Images by Fuzzy Randomized Knot Insertion to Cubic Spline. , 2007, , .		0
92	Shape-Preserving Rational Interpolation Scheme for Regular Surface Data. International Journal of Applied and Computational Mathematics, 2016, 2, 713-747.	0.9	0
93	Shape-Preserving Positive Trigonometric Spline Curves. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 763-775.	0.7	0
94	Outline Capture of Planar Objects by Detecting Corner Features. Advances in Computational Intelligence and Robotics Book Series, 2014, , 280-298.	0.4	0
95	Reverse Engineering of Generic Shapes Using Quadratic Spline and Genetic Algorithm. Advances in Intelligent Systems and Computing, 2020, , 678-686.	0.5	0
96	Some Algorithms on Detection of Corner Points for Digital Images. Advances in Computational Intelligence and Robotics Book Series, 2020, , 201-218.	0.4	0
97	Medical Image Zooming by Using Rational Bicubic Ball Function. Advances in Computational Intelligence and Robotics Book Series, 2020, , 146-161.	0.4	0
98	An Overview of Feature-Based Shadow Detection Methods. Advances in Computational Intelligence and Robotics Book Series, 2020, , 115-145.	0.4	0
99	A Rational Quadratic Trigonometric Spline (RQTS) as a Superior Surrogate to Rational Cubic Spline (RCS) with the Purpose of Designing. Applied Sciences (Switzerland), 2022, 12, 3992.	1.3	0