

Muhammad Sarfraz

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

484
citations

13
h-index

19
g-index

104
ext. papers

612
ext. citations

1.7
avg, IF

3.98
L-index

#	Paper	IF	Citations
97	A rational cubic spline with tension. <i>Computer Aided Geometric Design</i> , 1990 , 7, 1-13	1.2	59
96	Positivity-preserving interpolation of positive data by rational cubics. <i>Journal of Computational and Applied Mathematics</i> , 2008 , 218, 446-458	2.4	51
95	Positive data modeling using spline function. <i>Applied Mathematics and Computation</i> , 2010 , 216, 2036-2049	1.7	39
94	Shape-preserving curve interpolation. <i>International Journal of Computer Mathematics</i> , 2012 , 89, 35-53	1.2	34
93	Curves and surfaces for computer aided design using C ² rational cubic splines. <i>Engineering With Computers</i> , 1995 , 11, 94-102	4.5	28
92	Cubic spline curves with shape control. <i>Computers and Graphics</i> , 1994 , 18, 707-713	1.8	19
91	Monotone piecewise rational cubic interpolation. <i>International Journal of Computer Mathematics</i> , 2009 , 86, 423-430	1.2	18
90	Image Interpolation Using a Rational Bi-Cubic Ball. <i>Mathematics</i> , 2019 , 7, 1045	2.3	18
89	A C ² rational cubic spline alternative to the nurbs. <i>Computers and Graphics</i> , 1992 , 16, 69-77	1.8	16
88	Designing objects with a spline. <i>International Journal of Computer Mathematics</i> , 2010 , 87, 797-817	1.2	15
87	Capturing outlines of 2D objects with Bézier cubic approximation. <i>Image and Vision Computing</i> , 2009 , 27, 704-712	3.7	15
86	Shape preserving rational cubic spline for positive and convex data. <i>Egyptian Informatics Journal</i> , 2011 , 12, 231-236	3.1	13
85	SOME ALGORITHMS FOR CURVE DESIGN AND AUTOMATIC OUTLINE CAPTURING OF IMAGES. <i>International Journal of Image and Graphics</i> , 2004 , 04, 301-324	0.5	13
84	Skew Estimation and Correction of Text Using Bounding Box 2008 ,		9
83	A NEW APPROACH TO CORNER DETECTION 2006 , 528-533		9
82	Interactive Shape Control with Rational Cubic Splines. <i>Computer-Aided Design and Applications</i> , 2004 , 1, 709-717	1.4	9
81	Positivity-preserving scattered data interpolation scheme using the side-vertex method. <i>Applied Mathematics and Computation</i> , 2012 , 218, 7898-7910	2.7	8

80	Vectorizing outlines of generic shapes by cubic spline using simulated annealing. <i>International Journal of Computer Mathematics</i> , 2010 , 87, 1736-1751	1.2	8
79	Arabic Handwriting Recognition Using Projection Profile and Genetic Approach 2009 ,		8
78	Weighted Nu splines with local support basis functions. <i>Computers and Graphics</i> , 2004 , 28, 539-549	1.8	8
77	Outline capturing using rational functions with the help of genetic algorithm. <i>Applied Mathematics and Computation</i> , 2016 , 274, 661-678	2.7	7
76	A quadratic trigonometric weighted spline with local support basis functions. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 1041-1049	6.1	6
75	A quadratic trigonometric spline for curve modeling. <i>PLoS ONE</i> , 2019 , 14, e0208015	3.7	5
74	Arabic character recognition using particle swarm optimization with selected and weighted moment invariants 2007 ,		5
73	Representing Shapes by Fitting Data using an Evolutionary Approach. <i>Computer-Aided Design and Applications</i> , 2004 , 1, 179-185	1.4	5
72	A Quadratic Trigonometric Nu Spline with Shape Control. <i>International Journal of Image and Graphics</i> , 2017 , 17, 1750015	0.5	4
71	A randomized knot insertion algorithm for outline capture of planar images using cubic spline 2007 ,		4
70	Two Approaches for Vectorizing Image Outlines. <i>International Journal of Machine Learning and Computing</i> , 2012 , 301-307	1.8	4
69	A Comparative Study on Shadow Detection Methods Based on Features 2018 ,		3
68	Shape preserving curves using quadratic trigonometric splines. <i>Applied Mathematics and Computation</i> , 2015 , 265, 1126-1144	2.7	3
67	Evaluation Approach of Arabic Character Recognition. <i>International Journal of Computer Vision and Image Processing</i> , 2011 , 1, 58-77	0.7	3
66	License Plate Recognition System: Saudi Arabian Case 2005 , 19-32		3
65	An Approach to License Plate Recognition System Using Neural Network. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2019 , 20-36	0.3	3
64	Modeling of 2D Objects with Weighted-Quadratic Trigonometric Spline 2016 ,		3
63	Shape Designing of Engineering Images Using Rational Spline Interpolation. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-9	1.5	2

62	On Offline Arabic Character Recognition 2005 , 1-18	2
61	Weighted Nu Splines: An Alternative to NURBS 2005 , 81-95	2
60	Constraint-Based Visualization of Spatiotemporal Databases 2005 , 263-276	2
59	Improving Mine Recognition through Processing and DempsterShafer Fusion of Multisensor Data 2005 , 319-343	2
58	A quadratic trigonometric B-Spline as an alternate to cubic B-spline. <i>AEJ - Alexandria Engineering Journal</i> , 2022 , 61, 11433-11443	6.1 2
57	Introductory Chapter: On Digital Image Processing 2020 ,	1
56	Computer Aided Design Using a Rational Quadratic Trigonometric Spline with Interval Shape Control 2017 ,	1
55	Shape Preserving Rational Trigonometric Spline Curves 2014 ,	1
54	Modeling of Objects Using Conic Splines. <i>Journal of Software Engineering and Applications</i> , 2013 , 06, 67-726	1
53	Intelligent Recognition in Medical Pattern Understanding and Cognitive Analysis 2005 , 257-274	1
52	Hybrid Fingerprint Recognition Using Minutiae and Shape 2005 , 119-130	1
51	Pose-Invariant Face Recognition Using Subspace Techniques 2005 , 169-200	1
50	Personal Authentication Using the Fusion of Multiple Palm-Print Features 2005 , 131-143	1
49	Intelligent Iris Recognition Using Neural Networks 2005 , 145-167	1
48	An Intelligent Online Signature Verification System 2005 , 99-117	1
47	Conceptual Data Classification: Application for Knowledge Extraction 2005 , 453-467	1
46	Family of G2 Spiral Transition between Two Circles 2005 , 133-151	1
45	Intuitive and Precise Solid Modeling in a Virtual Reality Environment 2005 , 185-202	1

44	Detecting Corner Features of Planar Objects. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2014 , 262-279	0.4	1
43	Classification of Eyes Based on Fuzzy Logic. <i>International Journal of Cognitive Informatics and Natural Intelligence</i> , 2020 , 14, 101-112	0.9	1
42	Shadow detection of the satellite images of earth using ratio image pixels. <i>Earth Science Informatics</i> , 2021 , 14, 377-392	2.5	1
41	Shape Control & Designing Objects. <i>IFAC-PapersOnLine</i> , 2018 , 51, 316-322	0.7	1
40	A Shape Preserving Representation for Rational Curves with Efficient Evaluation Algorithm 2005 , 39-54		0
39	Shape-Preserving Positive Trigonometric Spline Curves 2018 , 42, 763-775		
38	Shape-Preserving Rational Interpolation Scheme for Regular Surface Data. <i>International Journal of Applied and Computational Mathematics</i> , 2016 , 2, 713-747	1.3	
37	Polygonal Subdivision Curves for Computer Graphics and Geometric Modeling 2005 , 1-17		
36	Topological Segmentation and Smoothing of Discrete Curve Skeletons 2005 , 389-409		
35	Intelligent Recognition: Components of the Short-Time Fourier Transform Vs. Conventional Approaches 2005 , 439-451		
34	Cryptographic Communications with Chaotic Semiconductor Lasers 2005 , 469-484		
33	Developmental Vision: Adaptive Recognition of Human Faces by Humanoid Robots 2005 , 201-239		
32	Empirical Study on Appearance-Based Binary Age Classification 2005 , 241-255		
31	The Roadmap for Recognizing Regions of Interest in Medical Images 2005 , 275-295		
30	Feature Extraction and Compression with Discriminative and Nonlinear Classifiers and Applications in Speech Recognition 2005 , 297-318		
29	Fast Object Recognition Using Dynamic Programming from a Combination of Salient Line Groups 2005 , 345-361		
28	Algorithms for Extracting Textual Characters in Color Video 2005 , 33-49		
27	Separation of Handwritten Touching Digits: A Multiagents Approach 2005 , 51-66		

- 26 Prototype-Based Handwriting Recognition Using Shape and Execution Prototypes **2005**, 67-88
- 25 Logo Detection in Document Images with Complex Backgrounds **2005**, 89-98
- 24 Holo-Extraction and Intelligent Recognition of Digital Curves Scanned from Paper Drawings **2005**, 363-388
- 23 Piecewise Power Basis Conversion of Dynamic B-Spline Curves and Surfaces **2005**, 55-68
- 22 Applications of Clifford-Valued Neural Networks to Pattern Classification and Pose Estimation **2005**, 411-437
- 21 Modifying the Shape of Cubic B-Spline and NURBS Curves by Means of Knots **2005**, 299-313
- 20 Planar Development of Digital Free-Form Surfaces **2005**, 19-38
- 19 Free Form Modeling Method Based on Silhouette and Boundary Lines **2005**, 175-183
- 18 Generation of Parting Surfaces Using Subdivision Technique **2005**, 97-106
- 17 Virtual Sculpting and Deformable Volume Modeling **2005**, 167-174
- 16 Triadic Subdivision of Non Uniform Powell-Sabin Splines **2005**, 107-119
- 15 Efficient Simplification of Triangular Meshes **2005**, 203-215
- 14 Irregular Topology Spline Surfaces and Texture Mapping **2005**, 241-249
- 13 Surface Interpolation Scheme by Distance Blending over Convex Sets **2005**, 121-131
- 12 Segmentation of Scanned Surfaces: Improved Extraction of Planes **2005**, 251-262
- 11 Surface Oriented Triangulation of Unorganized 3D Points Based on Laszlo's Algorithm **2005**, 277-297
- 10 Optimal Hierarchical Adaptive Mesh Construction Using FCO Sampling **2005**, 153-165
- 9 A Multiresolution Framework for NUBS **2005**, 229-240

- 8 Computational Methods for Geometric Processing of Surfaces: Blending, Offsetting, Intersection, Implicitization **2005**, 69-80
- 7 Multiresolution and Diffusion Methods Applied to Surface Reconstruction Based on T-Surfaces Framework **2005**, 217-228
- 6 An Overview of Feature-Based Shadow Detection Methods. *Advances in Computational Intelligence and Robotics Book Series*, **2020**, 115-145 0.4
- 5 Reverse Engineering of Generic Shapes Using Quadratic Spline and Genetic Algorithm. *Advances in Intelligent Systems and Computing*, **2020**, 678-686 0.4
- 4 Some Algorithms on Detection of Corner Points for Digital Images. *Advances in Computational Intelligence and Robotics Book Series*, **2020**, 201-218 0.4
- 3 Medical Image Zooming by Using Rational Bicubic Ball Function. *Advances in Computational Intelligence and Robotics Book Series*, **2020**, 146-161 0.4
- 2 Outline Capture of Planar Objects by Detecting Corner Features. *Advances in Computational Intelligence and Robotics Book Series*, **2014**, 280-298 0.4
- 1 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 2.6