

Chun-Gang Zhu

List of Publications by Year in descending order

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all docs

74
docs citations

74
times ranked

270
citing authors

#	ARTICLE	IF	CITATIONS
1	h-Refinement method for toric parameterization of planar multi-sided computational domain in isogeometric analysis. Computer Aided Geometric Design, 2022, 93, 102065.	1.2	3
2	Improved algorithms for determining the injectivity of 2D and 3D rational Bézier curves. Electronic Research Archive, 2022, 30, 1799-1812.	0.9	0
3	Penalty function-based volumetric parameterization method for isogeometric analysis. Computer Aided Geometric Design, 2022, 94, 102081.	1.2	8
4	Curvature-based $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e681" altimg="si4.svg" \rangle \langle \text{mml:mi} \rangle R \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Adaptive Planar NURBS Parameterization Method for Isogeometric Analysis Using Bi-Level Approach. CAD Computer Aided Design, 2022, 150, 103305.	2.7	6
5	Algorithms for computing the approximation of offsets of toric Bézier curves. Computational and Applied Mathematics, 2022, 41, .	2.2	0
6	De Casteljau Algorithm and Degree Elevation of Toric Surface Patches. Journal of Systems Science and Complexity, 2021, 34, 21-46.	2.8	7
7	Geometric conditions for injectivity of 3D Bézier volumes. AIMS Mathematics, 2021, 6, 11974-11988.	1.6	3
8	Generating bicubic B-spline surfaces by a sixth order PDE. AIMS Mathematics, 2021, 6, 1677-1694.	1.6	0
9	Conditions for injectivity of toric volumes with arbitrary positive weights. Computers and Graphics, 2021, 97, 88-98.	2.5	4
10	Constructing high-quality planar NURBS parameterization for isogeometric analysis by adjustment control points and weights. Journal of Computational and Applied Mathematics, 2021, 396, 113615.	2.0	17
11	3D grasp saliency analysis via deep shape correspondence. Computer Aided Geometric Design, 2020, 81, 101901.	1.2	0
12	Cubic B-spline quasi-interpolation and an application to numerical solution of generalized Burgers-Huxley equation. Advances in Mechanical Engineering, 2020, 12, 168781402097106.	1.6	4
13	Isogeometric analysis for trimmed CAD surfaces using multi-sided toric surface patches. Computer Aided Geometric Design, 2020, 79, 101847.	1.2	10
14	An improved algorithm for checking the injectivity of 2D toric surface patches. Computers and Mathematics With Applications, 2020, 79, 2973-2986.	2.7	10
15	Construction of triharmonic Bézier surfaces from boundary conditions. Journal of Computational and Applied Mathematics, 2020, 377, 112906.	2.0	6
16	Designing Developable C-Bézier Surface with Shape Parameters. Mathematics, 2020, 8, 402.	2.2	9
17	Curve and surface construction based on the generalized toric-Bernstein basis functions. Open Mathematics, 2020, 18, 36-56.	1.0	2
18	Construction of the spacelike constant angle surface family in Minkowski 3-space. AIMS Mathematics, 2020, 5, 6341-6354.	1.6	2

#	ARTICLE	IF	CITATIONS
37	Approximation of minimal toric Bézier patch. Advances in Mechanical Engineering, 2016, 8, 168781401665466.	1.6	0
38	Injectivity of NURBS curves. Journal of Computational and Applied Mathematics, 2016, 302, 129-138.	2.0	13
39	Spacelike developable surfaces through a common line of curvature in Minkowski 3-space. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2015, 9, JAMDSM0050-JAMDSM0050.	0.7	1
40	A family of bivariate rational Bernstein operators. Applied Mathematics and Computation, 2015, 258, 162-171.	2.2	0
41	Injectivity conditions of rational Bézier surfaces. Computers and Graphics, 2015, 51, 17-25.	2.5	11
42	G^1 continuity between toric surface patches. Computer Aided Geometric Design, 2015, 35-36, 255-267.		
43	Self-intersections of rational Bézier curves. Graphical Models, 2014, 76, 312-320.	2.4	17
44	Multivariate spline approximation of the signed distance function. Journal of Computational and Applied Mathematics, 2014, 265, 276-289.	2.0	3
45	On spline quasi-interpolation in cubic spline space S_3^1 . Scientia Sinica Mathematica, 2014, 44, 769-778.		
46	A numerical method for solving KdV equation with multilevel B-spline quasi-interpolation. Applicable Analysis, 2013, 92, 1682-1690.	1.3	11
47	A generalization of surface family with common line of curvature. Applied Mathematics and Computation, 2013, 219, 9500-9507.	2.2	4
48	Designing approximation minimal parametric surfaces with geodesics. Applied Mathematical Modelling, 2013, 37, 6415-6424.	4.2	15
49	An approach for designing a developable surface through a given line of curvature. CAD Computer Aided Design, 2013, 45, 621-627.	2.7	56
50	Algebra-geometry of piecewise algebraic varieties. Acta Mathematica Sinica, English Series, 2012, 28, 1973-1980.	0.6	1
51	Degenerations of toric ideals and toric varieties. Journal of Mathematical Analysis and Applications, 2012, 386, 613-618.	1.0	5
52	Injectivity of 2D Toric Bézier Patches. , 2011, , .		9
53	Design and G^1 connection of developable surfaces through Bézier geodesics. Applied Mathematics and Computation, 2011, 218, 3199-3208.	2.2	23
54	The correspondence between multivariate spline ideals and piecewise algebraic varieties. Journal of Computational and Applied Mathematics, 2011, 236, 793-800.	2.0	1

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55	Multivariate splines and hyperplane arrangements. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 775-781.	2.0	1
56	A note on multi-step difference schemes. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 647-652.	2.0	0
57	Parametric representation of a surface pencil with a common line of curvature. <i>CAD Computer Aided Design</i> , 2011, 43, 1110-1117.	2.7	67
58	High accuracy multiquadric quasi-interpolation. <i>Applied Mathematical Modelling</i> , 2011, 35, 2185-2195.	4.2	17
59	Toric degenerations of BÄzier patches. <i>ACM Transactions on Graphics</i> , 2011, 30, 1-10.	7.2	8
60	Fitting C^1 Surfaces to Scattered Data with S^2 ($\tilde{S}^2(m, n)$). <i>Journal of Computational Mathematics</i> , 2011, 29, 396-414.	0.4	0
61	A multilevel univariate cubic spline quasi-interpolation and application to numerical integration. <i>Mathematical Methods in the Applied Sciences</i> , 2010, 33, 1578-1586.	2.3	7
62	Numerical solution of Burgersâ€Fisher equation by cubic B-spline quasi-interpolation. <i>Applied Mathematics and Computation</i> , 2010, 216, 2679-2686.	2.2	57
63	Geometric interpolants with different degrees of smoothness. <i>International Journal of Computer Mathematics</i> , 2010, 87, 1907-1917.	1.8	0
64	NÄther-type theorem of piecewise algebraic curves on quasi-cross-cut partition. <i>Science in China Series A: Mathematics</i> , 2009, 52, 701-708.	0.5	6
65	Numerical solution of Burgersâ€™ equation by cubic B-spline quasi-interpolation. <i>Applied Mathematics and Computation</i> , 2009, 208, 260-272.	2.2	60
66	Functional splines with different degrees of smoothness and their applications. <i>CAD Computer Aided Design</i> , 2008, 40, 616-624.	2.7	12
67	Least Squares Fitting of Piecewise Algebraic Curves. <i>Mathematical Problems in Engineering</i> , 2007, 2007, 1-11.	1.1	6
68	NÄther-type theorem of piecewise algebraic curves on triangulation. <i>Science in China Series A: Mathematics</i> , 2007, 50, 1227-1232.	0.5	3
69	Lagrange interpolation by bivariate splines on cross-cut partitions. <i>Journal of Computational and Applied Mathematics</i> , 2006, 195, 326-340.	2.0	13
70	Cayleyâ€Bacharach theorem of piecewise algebraic curves. <i>Journal of Computational and Applied Mathematics</i> , 2004, 163, 269-276.	2.0	11
71	Piecewise algebraic varieties*. <i>Progress in Natural Science: Materials International</i> , 2004, 14, 568-572.	4.4	8
72	NÄther-type theorem of piecewise algebraic curves*. <i>Progress in Natural Science: Materials International</i> , 2004, 14, 309-313.	4.4	14

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73	High accuracy B-spline quasi-interpolants and applications in numerical analysis. <i>Applicable Analysis</i> , 0, , 1-20.	1.3	0