

# Bert JÄ¼ttler

## List of Publications by Year in descending order

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197  
papers

4,357  
citations

101543

36  
h-index

133252

59  
g-index

207  
all docs

207  
docs citations

207  
times ranked

1470  
citing authors

#	ARTICLE	IF	CITATIONS
1	THB-splines: The truncated basis for hierarchical splines. Computer Aided Geometric Design, 2012, 29, 485-498.	1.2	368
2	A hierarchical approach to adaptive local refinement in isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3554-3567.	6.6	343
3	Adaptive isogeometric analysis by local h-refinement with T-splines. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 264-275.	6.6	304
4	An algebraic approach to curves and surfaces on the sphere and on other quadrics. Computer Aided Geometric Design, 1993, 10, 211-229.	1.2	129
5	IETI – Isogeometric Tearing and Interconnecting. Computer Methods in Applied Mechanics and Engineering, 2012, 247-248, 201-215.	6.6	107
6	Computation of rotation minimizing frames. ACM Transactions on Graphics, 2008, 27, 1-18.	7.2	102
7	THB-splines: An effective mathematical technology for adaptive refinement in geometric design and isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2016, 299, 337-365.	6.6	97
8	Strongly stable bases for adaptively refined multilevel spline spaces. Advances in Computational Mathematics, 2014, 40, 459-490.	1.6	94
9	Least-Squares Fitting of Algebraic Spline Surfaces. Advances in Computational Mathematics, 2002, 17, 135-152.	1.6	80
10	Visualization of moving objects using dual quaternion curves. Computers and Graphics, 1994, 18, 315-326.	2.5	76
11	Cubic Pythagorean hodograph spline curves and applications to sweep surface modeling. CAD Computer Aided Design, 1999, 31, 73-83.	2.7	74
12	The dual basis functions for the Bernstein polynomials. Advances in Computational Mathematics, 1998, 8, 345-352.	1.6	72
13	Geometry + Simulation Modules: Implementing Isogeometric Analysis. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 961-962.	0.2	70
14	Isogeometric analysis with geometrically continuous functions on two-patch geometries. Computers and Mathematics With Applications, 2015, 70, 1518-1538.	2.7	69
15	Isogeometric analysis with geometrically continuous functions on planar multi-patch geometries. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 209-234.	6.6	59
16	Sweep-based human deformation. Visual Computer, 2005, 21, 542-550.	3.5	58
17	Low rank tensor methods in Galerkin-based isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 1062-1085.	6.6	55
18	Bounding the influence of domain parameterization and knot spacing on numerical stability in Isogeometric Analysis. Computer Methods in Applied Mechanics and Engineering, 2014, 268, 589-613.	6.6	49

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19	Hermite interpolation by piecewise polynomial surfaces with rational offsets. Computer Aided Geometric Design, 2000, 17, 361-385.	1.2	48
20	Shape Metrics Based on Elastic Deformations. Journal of Mathematical Imaging and Vision, 2009, 35, 86-102.	1.3	47
21	Adaptive CAD model (re-)construction with THB-splines. Graphical Models, 2014, 76, 273-288.	2.4	46
22	Planar domain parameterization with THB-splines. Computer Aided Geometric Design, 2015, 35-36, 95-108.	1.2	45
23	Cartesian spline interpolation for industrial robots. CAD Computer Aided Design, 1998, 30, 217-224.	2.7	44
24	$C^2$ Hermite interpolation by Pythagorean Hodograph space curves. Mathematics of Computation, 2007, 76, 1373-1392.	2.1	44
25	Approximating curves and their offsets using biarcs and Pythagorean hodograph quintics. CAD Computer Aided Design, 2006, 38, 608-618.	2.7	42
26	Monotonicity-preserving interproximation of $H$ -curves. Journal of Computational and Applied Mathematics, 2006, 196, 45-57.	2.0	42
27	Computing roots of polynomials by quadratic clipping. Computer Aided Geometric Design, 2007, 24, 125-141.	1.2	42
28	Existence of stiffness matrix integrals for singularly parameterized domains in isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3568-3582.	6.6	42
29	Integration by interpolation and look-up for Galerkin-based isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 373-400.	6.6	42
30	On numerical integration in isogeometric subdivision methods for PDEs on surfaces. Computer Methods in Applied Mechanics and Engineering, 2016, 302, 131-146.	6.6	42
31	Rational surfaces with linear normals and their convolutions with rational surfaces. Computer Aided Geometric Design, 2006, 23, 179-192.	1.2	41
32	Adaptively refined multi-patch B-splines with enhanced smoothness. Applied Mathematics and Computation, 2016, 272, 159-172.	2.2	39
33	Planar multi-patch domain parameterization via patch adjacency graphs. CAD Computer Aided Design, 2017, 82, 2-12.	2.7	39
34	Isogeometric simulation of turbine blades for aircraft engines. Computer Aided Geometric Design, 2012, 29, 519-531.	1.2	38
35	Hermite interpolation by Minkowski Pythagorean hodograph cubics. Computer Aided Geometric Design, 2006, 23, 401-418.	1.2	37
36	Rational patches on quadric surfaces. CAD Computer Aided Design, 1995, 27, 27-40.	2.7	36

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37	On the completeness of hierarchical tensor-product $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si58.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \text{B} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -splines. Journal of Computational and Applied Mathematics, 2014, 271, 53-70.	2.0	36
38	Bases and dimensions of bivariate hierarchical tensor-product splines. Journal of Computational and Applied Mathematics, 2013, 239, 162-178.	2.0	33
39	Curves and surfaces represented by polynomial support functions. Theoretical Computer Science, 2008, 392, 141-157.	0.9	32
40	Enhancing isogeometric analysis by a finite element-based local refinement strategy. Computer Methods in Applied Mechanics and Engineering, 2012, 213-216, 168-182.	6.6	30
41	Spectral Quadrangulation with Feature Curve Alignment and Element Size Control. ACM Transactions on Graphics, 2014, 34, 1-11.	7.2	30
42	Filling Holes in Point Clouds. Lecture Notes in Computer Science, 2003, , 196-212.	1.3	29
43	Constructing acceleration continuous tool paths using Pythagorean Hodograph curves. Mechanism and Machine Theory, 2005, 40, 1258-1272.	4.5	27
44	Computing exact rational offsets of quadratic triangular Bézier surface patches. CAD Computer Aided Design, 2008, 40, 197-209.	2.7	27
45	Isogeometric segmentation: The case of contractible solids without non-convex edges. CAD Computer Aided Design, 2014, 57, 74-90.	2.7	26
46	Surface fitting using convex tensor-product splines. Journal of Computational and Applied Mathematics, 1997, 84, 23-44.	2.0	25
47	A vegetarian approach to optimal parameterizations. Computer Aided Geometric Design, 1997, 14, 887-890.	1.2	24
48	Analysis and design of Hermite subdivision schemes. Visual Computer, 2002, 18, 326-342.	3.5	24
49	On rationally supported surfaces. Computer Aided Geometric Design, 2008, 25, 320-331.	1.2	23
50	Divide-and-conquer for Voronoi diagrams revisited. Computational Geometry: Theory and Applications, 2010, 43, 688-699.	0.5	23
51	Circular spline fitting using an evolution process. Journal of Computational and Applied Mathematics, 2009, 231, 423-433.	2.0	22
52	Adaptively refined multilevel spline spaces from generating systems. Computer Aided Geometric Design, 2014, 31, 545-566.	1.2	22
53	Partial tensor decomposition for decoupling isogeometric Galerkin discretizations. Computer Methods in Applied Mechanics and Engineering, 2018, 336, 485-506.	6.6	22
54	A construction of rational manifold surfaces of arbitrary topology and smoothness from triangular meshes. Computer Aided Geometric Design, 2008, 25, 801-815.	1.2	20

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55	Overlapping multi-patch structures in isogeometric analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 356, 325-353.	6.6	20
56	C 1 Hermite interpolation by Pythagorean hodograph quintics in Minkowski space. <i>Advances in Computational Mathematics</i> , 2009, 30, 123-140.	1.6	19
57	Projective and affine symmetries and equivalences of rational curves in arbitrary dimension. <i>Journal of Symbolic Computation</i> , 2018, 87, 68-86.	0.8	19
58	Shape preserving least-squares approximation by polynomial parametric spline curves. <i>Computer Aided Geometric Design</i> , 1997, 14, 731-747.	1.2	18
59	Evolution-based least-squares fitting using Pythagorean hodograph spline curves. <i>Computer Aided Geometric Design</i> , 2007, 24, 310-322.	1.2	18
60	Parameterizing surfaces with certain special support functions, including offsets of quadrics and rationally supported surfaces. <i>Journal of Symbolic Computation</i> , 2009, 44, 180-191.	0.8	18
61	Computing a compact spline representation of the medial axis transform of a 2D shape. <i>Graphical Models</i> , 2014, 76, 252-262.	2.4	18
62	A hierarchical construction of LR meshes in 2D. <i>Computer Aided Geometric Design</i> , 2015, 37, 9-24.	1.2	18
63	The external scent efferent system of selected European true bugs (Heteroptera): a biomimetic inspiration for passive, unidirectional fluid transport. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170975.	3.4	18
64	Parameterization of Contractible Domains Using Sequences of Harmonic Maps. <i>Lecture Notes in Computer Science</i> , 2012, , 501-514.	1.3	17
65	Fast formation of isogeometric Galerkin matrices via integration by interpolation and look-up. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 366, 113005.	6.6	17
66	A non-linear circle-preserving subdivision scheme. <i>Advances in Computational Mathematics</i> , 2007, 27, 375-400.	1.6	16
67	Modeling and 3D object reconstruction by implicitly defined surfaces with sharp features. <i>Computers and Graphics</i> , 2009, 33, 321-330.	2.5	16
68	Isogeometric segmentation. Part II: On the segmentability of contractible solids with non-convex edges. <i>Graphical Models</i> , 2014, 76, 426-439.	2.4	16
69	THB-splines multi-patch parameterization for multiply-connected planar domains via Template Segmentation. <i>Journal of Computational and Applied Mathematics</i> , 2019, 349, 390-402.	2.0	16
70	Hermite interpolation by rational $G$ -motions of low degree. <i>Journal of Computational and Applied Mathematics</i> , 2013, 240, 20-30.	2.0	15
71	Projective and affine symmetries and equivalences of rational and polynomial surfaces. <i>Journal of Computational and Applied Mathematics</i> , 2019, 349, 424-437.	2.0	15
72	Multigrid methods for isogeometric analysis with THB-splines. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 308, 96-112.	6.6	14

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73	Low rank interpolation of boundary spline curves. <i>Computer Aided Geometric Design</i> , 2017, 55, 48-68.	1.2	14
74	Evolution of T-spline level sets for meshing non-uniformly sampled and incomplete data. <i>Visual Computer</i> , 2008, 24, 435-448.	3.5	13
75	Gauss-Newton-type techniques for robustly fitting implicitly defined curves and surfaces to unorganized data points. , 2008, , .		13
76	Industrial application of exact Boolean operations for meshes. , 2010, , .		12
77	Blends of canal surfaces from polyhedral medial transform representations. <i>CAD Computer Aided Design</i> , 2011, 43, 1477-1484.	2.7	12
78	Envelope computation in the plane by approximate implicitization. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2011, 22, 265-288.	0.5	12
79	Patchwork B-spline refinement. <i>CAD Computer Aided Design</i> , 2017, 90, 168-179.	2.7	12
80	3D shape metamorphosis based on T-spline level sets. <i>Visual Computer</i> , 2007, 23, 1015-1025.	3.5	11
81	TDHB-splines: The truncated decoupled basis of hierarchical tensor-product splines. <i>Computer Aided Geometric Design</i> , 2014, 31, 531-544.	1.2	11
82	On de Casteljau-type algorithms for rational Bézier curves. <i>Journal of Computational and Applied Mathematics</i> , 2015, 288, 244-250.	2.0	11
83	Arc fibrations of planar domains. <i>Computer Aided Geometric Design</i> , 2019, 71, 105-118.	1.2	11
84	Euclidean and Minkowski Pythagorean hodograph curves over planar cubics. <i>Computer Aided Geometric Design</i> , 2005, 22, 753-770.	1.2	10
85	A predictor-corrector-type technique for the approximate parameterization of intersection curves. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2007, 18, 151-168.	0.5	10
86	Dual evolution of planar parametric spline curves and -spline level sets. <i>CAD Computer Aided Design</i> , 2008, 40, 13-24.	2.7	10
87	COMPUTATIONAL AND STRUCTURAL ADVANTAGES OF CIRCULAR BOUNDARY REPRESENTATION. <i>International Journal of Computational Geometry and Applications</i> , 2011, 21, 47-69.	0.5	10
88	Least-Squares Fitting of Algebraic Spline Curves via Normal Vector Estimation. , 2000, , 263-280.		10
89	Efficient matrix computation for isogeometric discretizations with hierarchical B-splines in any dimension. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 388, 114210.	6.6	10
90	The shape of spherical quartics. <i>Computer Aided Geometric Design</i> , 2003, 20, 621-636.	1.2	9

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91	Hybrid curve fitting. Computing (Vienna/New York), 2007, 79, 237-247.	4.8	9
92	Volumes with piecewise quadratic medial surface transforms: Computation of boundaries and trimmed offsets. CAD Computer Aided Design, 2010, 42, 571-579.	2.7	9
93	Isogeometric segmentation: Construction of auxiliary curves. CAD Computer Aided Design, 2016, 70, 89-99.	2.7	9
94	Generating tool paths on surfaces for a numerically controlled calotte cutting system. CAD Computer Aided Design, 2004, 36, 325-331.	2.7	8
95	On the existence of biharmonic tensor-product Bézier surface patches. Computer Aided Geometric Design, 2006, 23, 612-615.	1.2	8
96	Robust fitting of implicitly defined surfaces using Gauss-Newton-type techniques. Visual Computer, 2009, 25, 731-741.	3.5	8
97	On the Parameterization of Rational Ringed Surfaces and Rational Canal Surfaces. Mathematics in Computer Science, 2014, 8, 299-319.	0.4	8
98	On the linear independence of truncated hierarchical generating systems. Journal of Computational and Applied Mathematics, 2016, 306, 200-216.	2.0	8
99	Bases and dimensions of C1-smooth isogeometric splines on volumetric two-patch domains. Graphical Models, 2018, 99, 46-56.	2.4	8
100	Design of self-supporting surfaces with isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2019, 353, 328-347.	6.6	8
101	Parameterization for polynomial curve approximation via residual deep neural networks. Computer Aided Geometric Design, 2021, 85, 101977.	1.2	8
102	LSPIA, (stochastic) gradient descent, and parameter correction. Journal of Computational and Applied Mathematics, 2022, 406, 113921.	2.0	8
103	An osculating motion with second order contact for spatial Euclidean motions. Mechanism and Machine Theory, 1997, 32, 843-853.	4.5	7
104	Minimizing the Distortion of Affine Spline Motions. Graphical Models, 2002, 64, 128-144.	2.4	7
105	C1 Spline Implicitization of Planar Curves. Lecture Notes in Computer Science, 2004, , 161-177.	1.3	7
106	Medial design of blades for hydroelectric turbines and ship propellers. Computers and Graphics, 2012, 36, 434-444.	2.5	7
107	Curves and surfaces with rational chord length parameterization. Computer Aided Geometric Design, 2012, 29, 231-241.	1.2	7
108	Local (T)HB-spline projectors via restricted hierarchical spline fitting. Computer Aided Geometric Design, 2020, 80, 101865.	1.2	7

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109	Efficient matrix assembly in isogeometric analysis with hierarchical B-splines. Journal of Computational and Applied Mathematics, 2021, 390, 113278.	2.0	7
110	Spatial Pythagorean Hodograph Quintics and the Approximation of Pipe Surfaces. Lecture Notes in Computer Science, 2005, , 364-380.	1.3	7
111	A geometrical approach to curvature continuous joints of rational curves. Computer Aided Geometric Design, 1993, 10, 109-122.	1.2	6
112	Rounding Spatial G-Code Tool Paths Using Pythagorean Hodograph Curves. Journal of Computing and Information Science in Engineering, 2007, 7, 186-191.	2.7	6
113	Divide-and-conquer for Voronoi diagrams revisited. , 2009, , .		6
114	Derivatives of isogeometric functions on n-dimensional rational patches in $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sh="http://www.elsevier.com/xml/co} \rangle$	1.2	6
115	Automatic decomposition of 3D solids into contractible pieces using Reeb graphs. CAD Computer Aided Design, 2017, 90, 157-167.	2.7	6
116	Isogeometric Segmentation via Midpoint Subdivision Suitable Solids. CAD Computer Aided Design, 2019, 114, 179-190.	2.7	6
117	Matrix Generation in Isogeometric Analysis by Low Rank Tensor Approximation. Lecture Notes in Computer Science, 2015, , 321-340.	1.3	6
118	Exploring Matrix Generation Strategies in Isogeometric Analysis. Lecture Notes in Computer Science, 2014, , 364-382.	1.3	6
119	Hierarchical Spline Approximation of the Signed Distance Function. , 2010, , .		5
120	On Computing the Convex Hull of (Piecewise) Curved Objects. Mathematics in Computer Science, 2012, 6, 261-266.	0.4	5
121	Layered Reeb graphs for three-dimensional manifolds in boundary representation. Computers and Graphics, 2015, 46, 186-197.	2.5	5
122	Numerical integration on trimmed three-dimensional domains with implicitly defined trimming surfaces. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112577.	6.6	5
123	Construction of Rational Curves with Rational Rotation-Minimizing Frames via Möbius Transformations. Lecture Notes in Computer Science, 2010, , 15-25.	1.3	5
124	Projective isomorphisms between rational surfaces. Journal of Algebra, 2022, 594, 571-596.	0.7	5
125	Some remarks on geometric continuity of rational surface patches. Computer Aided Geometric Design, 1992, 9, 143-157.	1.2	4
126	COMPUTATIONAL METHODS FOR DISCRETE PARAMETRIC $\hat{\alpha}$ , "1 AND $\hat{\alpha}$ , " $\hat{\alpha}$ CURVE FITTING. International Journal of Shape Modeling, 1998, 04, 21-34.	0.2	4



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127	Local parametrization of cubic surfaces. <i>Journal of Symbolic Computation</i> , 2006, 41, 30-48.	0.8	4
128	Distance regression by Gauss-Newton-type methods and iteratively re-weighted least-squares. <i>Computing (Vienna/New York)</i> , 2009, 86, 73-87.	4.8	4
129	Spherical quadratic Bézier triangles with chord length parameterization and tripolar coordinates in space. <i>Computer Aided Geometric Design</i> , 2011, 28, 127-134.	1.2	4
130	On triangulation axes of polygons. <i>Information Processing Letters</i> , 2015, 115, 45-51.	0.6	4
131	Isogeometric segmentation: Construction of cutting surfaces. <i>CAD Computer Aided Design</i> , 2017, 90, 135-145.	2.7	4
132	Spline surface fitting using normal data and norm-like functions. <i>Computer Aided Geometric Design</i> , 2018, 64, 37-49.	1.2	4
133	Representing planar domains by polar parameterizations with parabolic parameter lines. <i>Computer Aided Geometric Design</i> , 2021, 85, 101966.	1.2	4
134	Exact Envelope Computation for Moving Surfaces with Quadratic Support Functions. , 2008, , 283-290.		4
135	The Isogeometric Segmentation Pipeline. <i>Lecture Notes in Computational Science and Engineering</i> , 2015, , 51-72.	0.3	4
136	MOS Surfaces: Medial Surface Transforms with Rational Domain Boundaries. <i>Lecture Notes in Computer Science</i> , 2007, , 245-262.	1.3	4
137	Exact Medial Axis Computation for Triangulated Solids with Respect to Piecewise Linear Metrics. <i>Lecture Notes in Computer Science</i> , 2012, , 1-27.	1.3	4
138	Approximate Implicitization of Space Curves and of Surfaces of Revolution. , 2008, , 215-227.		4
139	Zur Konstruktion Rationaler Kurven und Flächen auf Quadriken. <i>Journal of Geometry</i> , 1993, 47, 53-64.	0.4	3
140	Using Line Congruences for Parameterizing Special Algebraic Surfaces. <i>Lecture Notes in Computer Science</i> , 2003, , 223-243.	1.3	3
141	Meshing Non-uniformly Sampled and Incomplete Data Based on Displaced T-spline Level Sets. , 2007, , .		3
142	An Evolution-Based Approach for Approximate Parameterization of Implicitly Defined Curves by Polynomial Parametric Spline Curves. <i>Mathematics in Computer Science</i> , 2010, 4, 463-479.	0.4	3
143	Triangular bubble spline surfaces. <i>CAD Computer Aided Design</i> , 2011, 43, 1341-1349.	2.7	3
144	A Quadratic Clipping Step with Superquadratic Convergence for Bivariate Polynomial Systems. <i>Mathematics in Computer Science</i> , 2011, 5, 223-235.	0.4	3

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145	Volumetric Geometry Reconstruction of Turbine Blades for Aircraft Engines. Lecture Notes in Computer Science, 2012, , 280-295.	1.3	3
146	Characterization of bivariate hierarchical quartic box splines on a three-directional grid. Computer Aided Geometric Design, 2016, 41, 47-61.	1.2	3
147	Inf-sup stability of isogeometric Taylor-Hood and Sub-Grid methods for the Stokes problem with hierarchical splines. IMA Journal of Numerical Analysis, 2018, 38, 955-975.	2.9	3
148	First Order Error Correction for Trimmed Quadrature in Isogeometric Analysis. Lecture Notes in Computational Science and Engineering, 2019, , 297-321.	0.3	3
149	Lofting with Patchwork B-Splines. Springer INdAM Series, 2019, , 77-98.	0.5	3
150	Reparameterization and Adaptive Quadrature for the Isogeometric Discontinuous Galerkin Method. Lecture Notes in Computer Science, 2017, , 251-269.	1.3	3
151	Piecewise approximate implicitization: experiments using industrial data. Mathematics and Visualization, 2006, , 37-51.	0.6	3
152	Intersecting Biquadratic Bézier Surface Patches. , 2008, , 161-180.		3
153	Computational and Structural Advantages of Circular Boundary Representation. Lecture Notes in Computer Science, 2007, , 374-385.	1.3	3
154	Fast Distance Computation Using Quadratically Supported Surfaces. , 2009, , 141-148.		3
155	Approximating Offsets of Surfaces by using the Support function Representation. Mathematics in Industry, 2008, , 719-723.	0.3	3
156	Triangulations with Circular Arcs. Journal of Graph Algorithms and Applications, 2015, 19, 43-65.	0.4	3
157	Fast Formation of Matrices for Least-Squares Fitting by Tensor-Product Spline Surfaces. CAD Computer Aided Design, 2022, 150, 103307.	2.7	3
158	Fairness Criteria for Algebraic Curves. Computing (Vienna/New York), 2004, 72, 41-51.	4.8	2
159	Robust fitting of parametric curves. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1022201-1022202.	0.2	2
160	Approximate implicitization of planar curves by piecewise rational approximation of the distance function. Applicable Algebra in Engineering, Communications and Computing, 2007, 18, 71-89.	0.5	2
161	Geometric Modeling and Processing. Computer Aided Geometric Design, 2009, 26, 367.	1.2	2
162	Total curvature variation fairing for medial axis regularization. Graphical Models, 2014, 76, 633-647.	2.4	2

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163	27 variants of Tutte's theorem for plane near-triangulations and an application to periodic spline surface fitting. <i>Computer Aided Geometric Design</i> , 2021, 85, 101975.	1.2	2
164	Partially Nested Hierarchical Refinement of Bivariate Tensor-Product Splines with Highest Order Smoothness. <i>Lecture Notes in Computer Science</i> , 2017, , 126-144.	1.3	2
165	Convergence of Tikhonov regularization for solving ill-posed operator equations with solutions defined on surfaces. <i>Inverse Problems and Imaging</i> , 2017, 11, 221-246.	1.1	2
166	Approximate Rational Parameterization of Implicitly Defined Surfaces. <i>Lecture Notes in Computer Science</i> , 2005, , 434-447.	1.3	2
167	3D Shape Metamorphosis Based on T-spline Level Sets. , 2007, , .		1
168	Evolving Four-Bars for Optimal Synthesis. , 2009, , 109-116.		1
169	Oriented bounding surfaces with at most six common normals. , 2009, , .		1
170	A multiresolution analysis for tensor-product splines using weighted spline wavelets. <i>Journal of Computational and Applied Mathematics</i> , 2009, 231, 828-839.	2.0	1
171	Preface " Geometric modeling and processing. <i>CAD Computer Aided Design</i> , 2010, 42, 1.	2.7	1
172	Completeness of generating systems for quadratic splines on adaptively refined criss-cross triangulations. <i>Computer Aided Geometric Design</i> , 2016, 45, 91-107.	1.2	1
173	Bivariate Hermite interpolation by a limiting case of the cross approximation algorithm. <i>Journal of Computational and Applied Mathematics</i> , 2020, 375, 112634.	2.0	1
174	On the error in transfinite interpolation by low-rank functions. <i>Journal of Approximation Theory</i> , 2020, 253, 105379.	0.8	1
175	IGA Using Offset-based Overlapping Domain Parameterizations. <i>CAD Computer Aided Design</i> , 2021, 139, 103087.	2.7	1
176	Using High-Order Transport Theorems for Implicitly Defined Moving Curves to Perform Quadrature on Planar Domains. <i>SIAM Journal on Numerical Analysis</i> , 2021, 59, 2138-2162.	2.3	1
177	Approximate Implicitization of Space Curves. <i>Texts and Monographs in Symbolic Computation</i> , 2012, , 1-19.	0.4	1
178	Fairness Criteria for Algebraic Curves. , 2004, , 41-51.		1
179	Approximating Algebraic Space Curves by Circular Arcs. <i>Lecture Notes in Computer Science</i> , 2012, , 157-177.	1.3	1
180	Fast Approximate Implicitization of Envelope Curves Using Chebyshev Polynomials. , 2012, , 205-212.		1

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181	Approximately $C^1$ -Smooth Isogeometric Functions on Two-Patch Domains. Lecture Notes in Computational Science and Engineering, 2021, , 157-175.	0.3	1
182	Mitered Offsets and Skeletons for Circular Arc Polygons. International Journal of Computational Geometry and Applications, 2020, 30, 235-256.	0.5	1
183	Weighted isogeometric collocation based on Spline Projectors. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114554.	6.6	1
184	Variational and PDE level set methods. Computing (Vienna/New York), 2007, 81, 107-108.	4.8	0
185	Combined evolution of level sets and B-spline curves for imaging. Computing and Visualization in Science, 2009, 12, 287-295.	1.2	0
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