

Bert JÄ¼ttler

List of Publications by Year in descending order

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197
papers

4,357
citations

101543

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207
all docs

207
docs citations

207
times ranked

1470
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient matrix computation for isogeometric discretizations with hierarchical B-splines in any dimension. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114210.	6.6	10
2	LSPIA, (stochastic) gradient descent, and parameter correction. Journal of Computational and Applied Mathematics, 2022, 406, 113921.	2.0	8
3	Projective isomorphisms between rational surfaces. Journal of Algebra, 2022, 594, 571-596.	0.7	5
4	Weighted isogeometric collocation based on Spline Projectors. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114554.	6.6	1
5	Fast Formation of Matrices for Least-Squares Fitting by Tensor-Product Spline Surfaces. CAD Computer Aided Design, 2022, 150, 103307.	2.7	3
6	Representing planar domains by polar parameterizations with parabolic parameter lines. Computer Aided Geometric Design, 2021, 85, 101966.	1.2	4
7	27 variants of Tutte's theorem for plane near-triangulations and an application to periodic spline surface fitting. Computer Aided Geometric Design, 2021, 85, 101975.	1.2	2
8	Parameterization for polynomial curve approximation via residual deep neural networks. Computer Aided Geometric Design, 2021, 85, 101977.	1.2	8
9	Efficient matrix assembly in isogeometric analysis with hierarchical B-splines. Journal of Computational and Applied Mathematics, 2021, 390, 113278.	2.0	7
10	IGA Using Offset-based Overlapping Domain Parameterizations. CAD Computer Aided Design, 2021, 139, 103087.	2.7	1
11	Using High-Order Transport Theorems for Implicitly Defined Moving Curves to Perform Quadrature on Planar Domains. SIAM Journal on Numerical Analysis, 2021, 59, 2138-2162.	2.3	1
12	Approximately C^1 -Smooth Isogeometric Functions on Two-Patch Domains. Lecture Notes in Computational Science and Engineering, 2021, , 157-175.	0.3	1
13	Approximation Power of C^1 -Smooth Isogeometric Splines on Volumetric Two-Patch Domains. Lecture Notes in Computational Science and Engineering, 2021, , 27-38.	0.3	0
14	Local (T)HB-spline projectors via restricted hierarchical spline fitting. Computer Aided Geometric Design, 2020, 80, 101865.	1.2	7
15	Bivariate Hermite interpolation by a limiting case of the cross approximation algorithm. Journal of Computational and Applied Mathematics, 2020, 375, 112634.	2.0	1
16	On the error in transfinite interpolation by low-rank functions. Journal of Approximation Theory, 2020, 253, 105379.	0.8	1
17	Fast formation of isogeometric Galerkin matrices via integration by interpolation and look-up. Computer Methods in Applied Mechanics and Engineering, 2020, 366, 113005.	6.6	17
18	Mitered Offsets and Skeletons for Circular Arc Polygons. International Journal of Computational Geometry and Applications, 2020, 30, 235-256.	0.5	1

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19	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
20	First Order Error Correction for Trimmed Quadrature in Isogeometric Analysis. <i>Lecture Notes in Computational Science and Engineering</i> , 2019, , 297-321.	0.3	3
21	Overlapping multi-patch structures in isogeometric analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 356, 325-353.	6.6	20
22	Numerical integration on trimmed three-dimensional domains with implicitly defined trimming surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 357, 112577.	6.6	5
23	Design of self-supporting surfaces with isogeometric analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 353, 328-347.	6.6	8
24	Isogeometric Segmentation via Midpoint Subdivision Suitable Solids. <i>CAD Computer Aided Design</i> , 2019, 114, 179-190.	2.7	6
25	Arc fibrations of planar domains. <i>Computer Aided Geometric Design</i> , 2019, 71, 105-118.	1.2	11
26	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
27	Lofting with Patchwork B-Splines. <i>Springer INdAM Series</i> , 2019, , 77-98.	0.5	3
28	Template Mapping Using Adaptive Splines and Optimization of the Parameterization. <i>Springer INdAM Series</i> , 2019, , 217-238.	0.5	0
29	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
30	Partial tensor decomposition for decoupling isogeometric Galerkin discretizations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 336, 485-506.	6.6	22
31	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
32	Bases and dimensions of C1-smooth isogeometric splines on volumetric two-patch domains. <i>Graphical Models</i> , 2018, 99, 46-56.	2.4	8
33	Inf ^{sup} stability of isogeometric Taylor-Hood and Sub-Grid methods for the Stokes problem with hierarchical splines. <i>IMA Journal of Numerical Analysis</i> , 2018, 38, 955-975.	2.9	3
34	Spline surface fitting using normal data and norm-like functions. <i>Computer Aided Geometric Design</i> , 2018, 64, 37-49.	1.2	4
35	Low rank interpolation of boundary spline curves. <i>Computer Aided Geometric Design</i> , 2017, 55, 48-68.	1.2	14
36	Coupling adaptively refined multi-patch spline discretizations via boundary compatibility. <i>Computers and Mathematics With Applications</i> , 2017, 74, 1626-1647.	2.7	0

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37	Automatic decomposition of 3D solids into contractible pieces using Reeb graphs. CAD Computer Aided Design, 2017, 90, 157-167.	2.7	6
38	Isogeometric segmentation: Construction of cutting surfaces. CAD Computer Aided Design, 2017, 90, 135-145.	2.7	4
39	Patchwork B-spline refinement. CAD Computer Aided Design, 2017, 90, 168-179.	2.7	12
40	Planar multi-patch domain parameterization via patch adjacency graphs. CAD Computer Aided Design, 2017, 82, 2-12.	2.7	39
41	Low rank tensor methods in Galerkin-based isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 1062-1085.	6.6	55
42	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
43	Reparameterization and Adaptive Quadrature for the Isogeometric Discontinuous Galerkin Method. Lecture Notes in Computer Science, 2017, , 251-269.	1.3	3
44	Partially Nested Hierarchical Refinement of Bivariate Tensor-Product Splines with Highest Order Smoothness. Lecture Notes in Computer Science, 2017, , 126-144.	1.3	2
45	Convergence of Tikhonov regularization for solving ill-posed operator equations with solutions defined on surfaces. Inverse Problems and Imaging, 2017, 11, 221-246.	1.1	2
46	On the linear independence of truncated hierarchical generating systems. Journal of Computational and Applied Mathematics, 2016, 306, 200-216.	2.0	8
47	Multigrid methods for isogeometric analysis with THB-splines. Computer Methods in Applied Mechanics and Engineering, 2016, 308, 96-112.	6.6	14
48	New Developments in Geometry – Theory and Applications. Computer Aided Geometric Design, 2016, 47, 1-2.	1.2	0
49	Completeness of generating systems for quadratic splines on adaptively refined criss-cross triangulations. Computer Aided Geometric Design, 2016, 45, 91-107.	1.2	1
50	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
51	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
52	Characterization of bivariate hierarchical quartic box splines on a three-directional grid. Computer Aided Geometric Design, 2016, 41, 47-61.	1.2	3
53	Adaptively refined multi-patch B-splines with enhanced smoothness. Applied Mathematics and Computation, 2016, 272, 159-172.	2.2	39
54	Isogeometric segmentation: Construction of auxiliary curves. CAD Computer Aided Design, 2016, 70, 89-99.	2.7	9

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55	Mini-Workshop: Mathematical Foundations of Isogeometric Analysis. Oberwolfach Reports, 2016, 13, 341-385.	0.0	0
56	Isogeometric analysis with geometrically continuous functions on two-patch geometries. Computers and Mathematics With Applications, 2015, 70, 1518-1538.	2.7	69
57	On de Casteljau-type algorithms for rational BÄzier curves. Journal of Computational and Applied Mathematics, 2015, 288, 244-250.	2.0	11
58	A hierarchical construction of LR meshes in 2D. Computer Aided Geometric Design, 2015, 37, 9-24.	1.2	18
59	Planar domain parameterization with THB-splines. Computer Aided Geometric Design, 2015, 35-36, 95-108.	1.2	45
60	Layered Reeb graphs for three-dimensional manifolds in boundary representation. Computers and Graphics, 2015, 46, 186-197.	2.5	5
61	On triangulation axes of polygons. Information Processing Letters, 2015, 115, 45-51.	0.6	4
62	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
63	Matrix Generation in Isogeometric Analysis by Low Rank Tensor Approximation. Lecture Notes in Computer Science, 2015, , 321-340.	1.3	6
64	The Isogeometric Segmentation Pipeline. Lecture Notes in Computational Science and Engineering, 2015, , 51-72.	0.3	4
65	Triangulations with Circular Arcs. Journal of Graph Algorithms and Applications, 2015, 19, 43-65.	0.4	3
66	A Primer on Splines and NURBS for Isogeometric Analysis. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2015, , 1-19.	0.6	0
67	Spectral Quadrangulation with Feature Curve Alignment and Element Size Control. ACM Transactions on Graphics, 2014, 34, 1-11.	7.2	30
68	Geometry + Simulation Modules: Implementing Isogeometric Analysis. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 961-962.	0.2	70
69	Three-dimensional rational patches in  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:tbl="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd"/>	1.2	6
70	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
71	Strongly stable bases for adaptively refined multilevel spline spaces. Advances in Computational Mathematics, 2014, 40, 459-490.	1.6	94
72	Adaptive CAD model (re-)construction with THB-splines. Graphical Models, 2014, 76, 273-288.	2.4	46

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73	Computing a compact spline representation of the medial axis transform of a 2D shape. Graphical Models, 2014, 76, 252-262.	2.4	18
74	Total curvature variation fairing for medial axis regularization. Graphical Models, 2014, 76, 633-647.	2.4	2
75	Isogeometric segmentation: The case of contractible solids without non-convex edges. CAD Computer Aided Design, 2014, 57, 74-90.	2.7	26
76	On the Parameterization of Rational Ringed Surfaces and Rational Canal Surfaces. Mathematics in Computer Science, 2014, 8, 299-319.	0.4	8
77	Isogeometric segmentation. Part II: On the segmentability of contractible solids with non-convex edges. Graphical Models, 2014, 76, 426-439.	2.4	16
78	On the completeness of hierarchical tensor-product B -splines. Journal of Computational and Applied Mathematics, 2014, 271, 53-70.	2.0	36
79	Adaptively refined multilevel spline spaces from generating systems. Computer Aided Geometric Design, 2014, 31, 545-566.	1.2	22
80	TDHB-splines: The truncated decoupled basis of hierarchical tensor-product splines. Computer Aided Geometric Design, 2014, 31, 531-544.	1.2	11
81	Exploring Matrix Generation Strategies in Isogeometric Analysis. Lecture Notes in Computer Science, 2014, , 364-382.	1.3	6
82	Bases and dimensions of bivariate hierarchical tensor-product splines. Journal of Computational and Applied Mathematics, 2013, 239, 162-178.	2.0	33
83	Hermite interpolation by rational G -motions of low degree. Journal of Computational and Applied Mathematics, 2013, 240, 20-30.	2.0	15
84	Voronoi Diagrams from (Possibly Discontinuous) Embeddings. , 2013, , .		0
85	Triangulations with Circular Arcs. Lecture Notes in Computer Science, 2012, , 296-307.	1.3	0
86	Volumetric Geometry Reconstruction of Turbine Blades for Aircraft Engines. Lecture Notes in Computer Science, 2012, , 280-295.	1.3	3
87	IETI – Isogeometric Tearing and Interconnecting. Computer Methods in Applied Mechanics and Engineering, 2012, 247-248, 201-215.	6.6	107
88	On Computing the Convex Hull of (Piecewise) Curved Objects. Mathematics in Computer Science, 2012, 6, 261-266.	0.4	5
89	Medial design of blades for hydroelectric turbines and ship propellers. Computers and Graphics, 2012, 36, 434-444.	2.5	7
90	Curves and surfaces with rational chord length parameterization. Computer Aided Geometric Design, 2012, 29, 231-241.	1.2	7

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91	Isogeometric simulation of turbine blades for aircraft engines. Computer Aided Geometric Design, 2012, 29, 519-531.	1.2	38
92	THB-splines: The truncated basis for hierarchical splines. Computer Aided Geometric Design, 2012, 29, 485-498.	1.2	368
93	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
94	Exact Medial Axis Computation for Triangulated Solids with Respect to Piecewise Linear Metrics. Lecture Notes in Computer Science, 2012, , 1-27.	1.3	4
95	Parameterization of Contractible Domains Using Sequences of Harmonic Maps. Lecture Notes in Computer Science, 2012, , 501-514.	1.3	17
96	Approximate Implicitization of Space Curves. Texts and Monographs in Symbolic Computation, 2012, , 1-19.	0.4	1
97	Approximating Algebraic Space Curves by Circular Arcs. Lecture Notes in Computer Science, 2012, , 157-177.	1.3	1
98	Decomposing Envelopes of Rational Hypersurfaces. , 2012, , 189-196.		0
99	Fast Approximate Implicitization of Envelope Curves Using Chebyshev Polynomials. , 2012, , 205-212.		1
100	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
101	A hierarchical approach to adaptive local refinement in isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3554-3567.	6.6	343
102	Blends of canal surfaces from polyhedral medial transform representations. CAD Computer Aided Design, 2011, 43, 1477-1484.	2.7	12
103	Triangular bubble spline surfaces. CAD Computer Aided Design, 2011, 43, 1341-1349.	2.7	3
104	Envelope computation in the plane by approximate implicitization. Applicable Algebra in Engineering, Communications and Computing, 2011, 22, 265-288.	0.5	12
105	A Quadratic Clipping Step with Superquadratic Convergence for Bivariate Polynomial Systems. Mathematics in Computer Science, 2011, 5, 223-235.	0.4	3
106	Spherical quadratic Bézier triangles with chord length parameterization and tripolar coordinates in space. Computer Aided Geometric Design, 2011, 28, 127-134.	1.2	4
107	COMPUTATIONAL AND STRUCTURAL ADVANTAGES OF CIRCULAR BOUNDARY REPRESENTATION. International Journal of Computational Geometry and Applications, 2011, 21, 47-69.	0.5	10
108	An Evolution-Based Approach for Approximate Parameterization of Implicitly Defined Curves by Polynomial Parametric Spline Curves. Mathematics in Computer Science, 2010, 4, 463-479.	0.4	3

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109	Adaptive isogeometric analysis by local h-refinement with T-splines. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 264-275.	6.6	304
110	Divide-and-conquer for Voronoi diagrams revisited. <i>Computational Geometry: Theory and Applications</i> , 2010, 43, 688-699.	0.5	23
111	Preface " Geometric modeling and processing. <i>CAD Computer Aided Design</i> , 2010, 42, 1.	2.7	1
112	Volumes with piecewise quadratic medial surface transforms: Computation of boundaries and trimmed offsets. <i>CAD Computer Aided Design</i> , 2010, 42, 571-579.	2.7	9
113	Industrial application of exact Boolean operations for meshes. , 2010, , .		12
114	Hierarchical Spline Approximation of the Signed Distance Function. , 2010, , .		5
115	Construction of Rational Curves with Rational Rotation-Minimizing Frames via Möbius Transformations. <i>Lecture Notes in Computer Science</i> , 2010, , 15-25.	1.3	5
116	Surfaces with Rational Chord Length Parameterization. <i>Lecture Notes in Computer Science</i> , 2010, , 19-28.	1.3	0
117	Evolving Four-Bars for Optimal Synthesis. , 2009, , 109-116.		1
118	Divide-and-conquer for Voronoi diagrams revisited. , 2009, , .		6
119	Oriented bounding surfaces with at most six common normals. , 2009, , .		1
120	Modeling and 3D object reconstruction by implicitly defined surfaces with sharp features. <i>Computers and Graphics</i> , 2009, 33, 321-330.	2.5	16
121	Combined evolution of level sets and B-spline curves for imaging. <i>Computing and Visualization in Science</i> , 2009, 12, 287-295.	1.2	0
122	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
123	C 1 Hermite interpolation by Pythagorean hodograph quintics in Minkowski space. <i>Advances in Computational Mathematics</i> , 2009, 30, 123-140.	1.6	19
124	Shape Metrics Based on Elastic Deformations. <i>Journal of Mathematical Imaging and Vision</i> , 2009, 35, 86-102.	1.3	47
125	Robust fitting of implicitly defined surfaces using Gauss-Newton-type techniques. <i>Visual Computer</i> , 2009, 25, 731-741.	3.5	8
126	Call for Papers Computer Aided Geometric Design - Volume 26, Issue 7. <i>Computer Aided Geometric Design</i> , 2009, 26, 1.	1.2	0

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127	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
128	Geometric Modeling and Processing. <i>Computer Aided Geometric Design</i> , 2009, 26, 367.	1.2	2
129	Circular spline fitting using an evolution process. <i>Journal of Computational and Applied Mathematics</i> , 2009, 231, 423-433.	2.0	22
130	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
131	Fast Distance Computation Using Quadratically Supported Surfaces. , 2009, , 141-148.		3
132	Support Function Representation for Curvature Dependent Surface Sampling. , 2009, , .		0
133	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
134	Dual evolution of planar parametric spline curves and -spline level sets. <i>CAD Computer Aided Design</i> , 2008, 40, 13-24.	2.7	10
135	Computing exact rational offsets of quadratic triangular BÄzier surface patches. <i>CAD Computer Aided Design</i> , 2008, 40, 197-209.	2.7	27
136	On rationally supported surfaces. <i>Computer Aided Geometric Design</i> , 2008, 25, 320-331.	1.2	23
137	A construction of rational manifold surfaces of arbitrary topology and smoothness from triangular meshes. <i>Computer Aided Geometric Design</i> , 2008, 25, 801-815.	1.2	20
138	Curves and surfaces represented by polynomial support functions. <i>Theoretical Computer Science</i> , 2008, 392, 141-157.	0.9	32
139	Gauss-Newton-type techniques for robustly fitting implicitly defined curves and surfaces to unorganized data points. , 2008, , .		13
140	Computation of rotation minimizing frames. <i>ACM Transactions on Graphics</i> , 2008, 27, 1-18.	7.2	102
141	Exact Envelope Computation for Moving Surfaces with Quadratic Support Functions. , 2008, , 283-290.		4
142	Intersecting Biquadratic BÄzier Surface Patches. , 2008, , 161-180.		3
143	Approximate Implicitization of Space Curves and of Surfaces of Revolution. , 2008, , 215-227.		4
144	Approximating Offsets of Surfaces by using the Support function Representation. <i>Mathematics in Industry</i> , 2008, , 719-723.	0.3	3

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145	3D Shape Metamorphosis Based on T-spline Level Sets. , 2007, , .		1
146	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
147	Meshing Non-uniformly Sampled and Incomplete Data Based on Displaced T-spline Level Sets. , 2007, , .		3
148	C^2 Hermite interpolation by Pythagorean Hodograph space curves. Mathematics of Computation, 2007, 76, 1373-1392.	2.1	44
149	Computing roots of polynomials by quadratic clipping. Computer Aided Geometric Design, 2007, 24, 125-141.	1.2	42
150	Evolution-based least-squares fitting using Pythagorean hodograph spline curves. Computer Aided Geometric Design, 2007, 24, 310-322.	1.2	18
151	Robust fitting of parametric curves. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1022201-1022202.	0.2	2
152	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
153	A predictor-corrector-type technique for the approximate parameterization of intersection curves. Applicable Algebra in Engineering, Communications and Computing, 2007, 18, 151-168.	0.5	10
154	3D shape metamorphosis based on T-spline level sets. Visual Computer, 2007, 23, 1015-1025.	3.5	11
155	A non-linear circle-preserving subdivision scheme. Advances in Computational Mathematics, 2007, 27, 375-400.	1.6	16
156	Hybrid curve fitting. Computing (Vienna/New York), 2007, 79, 237-247.	4.8	9
157	Variational and PDE level set methods. Computing (Vienna/New York), 2007, 81, 107-108.	4.8	0
158	MOS Surfaces: Medial Surface Transforms with Rational Domain Boundaries. Lecture Notes in Computer Science, 2007, , 245-262.	1.3	4
159	Computational and Structural Advantages of Circular Boundary Representation. Lecture Notes in Computer Science, 2007, , 374-385.	1.3	3
160	Approximating curves and their offsets using biarcs and Pythagorean hodograph quintics. CAD Computer Aided Design, 2006, 38, 608-618.	2.7	42
161	Rational surfaces with linear normals and their convolutions with rational surfaces. Computer Aided Geometric Design, 2006, 23, 179-192.	1.2	41
162	Hermite interpolation by Minkowski Pythagorean hodograph cubics. Computer Aided Geometric Design, 2006, 23, 401-418.	1.2	37

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163	On the existence of biharmonic tensor-product Bézier surface patches. Computer Aided Geometric Design, 2006, 23, 612-615.	1.2	8
164	Monotonicity-preserving interproximation of Bézier curves. Journal of Computational and Applied Mathematics, 2006, 196, 45-57.	2.0	42
165	Local parametrization of cubic surfaces. Journal of Symbolic Computation, 2006, 41, 30-48.	0.8	4
166	Piecewise approximate implicitization: experiments using industrial data. Mathematics and Visualization, 2006, , 37-51.	0.6	3
167	Euclidean and Minkowski Pythagorean hodograph curves over planar cubics. Computer Aided Geometric Design, 2005, 22, 753-770.	1.2	10
168	Sweep-based human deformation. Visual Computer, 2005, 21, 542-550.	3.5	58
169	Constructing acceleration continuous tool paths using Pythagorean Hodograph curves. Mechanism and Machine Theory, 2005, 40, 1258-1272.	4.5	27
170	Spatial Pythagorean Hodograph Quintics and the Approximation of Pipe Surfaces. Lecture Notes in Computer Science, 2005, , 364-380.	1.3	7
171	Approximate Rational Parameterization of Implicitly Defined Surfaces. Lecture Notes in Computer Science, 2005, , 434-447.	1.3	2
172	Fairness Criteria for Algebraic Curves. Computing (Vienna/New York), 2004, 72, 41-51.	4.8	2
173	Generating tool paths on surfaces for a numerically controlled calotte cutting system. CAD Computer Aided Design, 2004, 36, 325-331.	2.7	8
174	C 1 Spline Implicitization of Planar Curves. Lecture Notes in Computer Science, 2004, , 161-177.	1.3	7
175	Fairness Criteria for Algebraic Curves. , 2004, , 41-51.		1
176	The shape of spherical quartics. Computer Aided Geometric Design, 2003, 20, 621-636.	1.2	9
177	Using Line Congruences for Parameterizing Special Algebraic Surfaces. Lecture Notes in Computer Science, 2003, , 223-243.	1.3	3
178	Filling Holes in Point Clouds. Lecture Notes in Computer Science, 2003, , 196-212.	1.3	29
179	Minimizing the Distortion of Affine Spline Motions. Graphical Models, 2002, 64, 128-144.	2.4	7
180	Analysis and design of Hermite subdivision schemes. Visual Computer, 2002, 18, 326-342.	3.5	24

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181	Least-Squares Fitting of Algebraic Spline Surfaces. Advances in Computational Mathematics, 2002, 17, 135-152.	1.6	80
182	Hermite interpolation by piecewise polynomial surfaces with rational offsets. Computer Aided Geometric Design, 2000, 17, 361-385.	1.2	48
183	Least-Squares Fitting of Algebraic Spline Curves via Normal Vector Estimation. , 2000, , 263-280.		10
184	Cubic Pythagorean hodograph spline curves and applications to sweep surface modeling. CAD Computer Aided Design, 1999, 31, 73-83.	2.7	74
185	Cartesian spline interpolation for industrial robots. CAD Computer Aided Design, 1998, 30, 217-224.	2.7	44
186	The dual basis functions for the Bernstein polynomials. Advances in Computational Mathematics, 1998, 8, 345-352.	1.6	72
187	COMPUTATIONAL METHODS FOR DISCRETE PARAMETRIC $\hat{\alpha}_1$ AND $\hat{\alpha}_2$ CURVE FITTING. International Journal of Shape Modeling, 1998, 04, 21-34.	0.2	4
188	An osculating motion with second order contact for spatial Euclidean motions. Mechanism and Machine Theory, 1997, 32, 843-853.	4.5	7
189	Surface fitting using convex tensor-product splines. Journal of Computational and Applied Mathematics, 1997, 84, 23-44.	2.0	25
190	Shape preserving least-squares approximation by polynomial parametric spline curves. Computer Aided Geometric Design, 1997, 14, 731-747.	1.2	18
191	A vegetarian approach to optimal parameterizations. Computer Aided Geometric Design, 1997, 14, 887-890.	1.2	24
192	Rational patches on quadric surfaces. CAD Computer Aided Design, 1995, 27, 27-40.	2.7	36
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