

录用待发表

- [1] Ye Ji*, Matthias Möllera, Yingying Yu, **Chungang Zhu**, Boundary parameter matching for isogeometric analysis using Schwarz–Christoffel mapping, *Engineering with Computers*, <https://doi.org/10.1007/s00366-024-02020-z>.
- [2] Pei Zhou, **Chun-Gang Zhu***, Toric parameterization based isogeometric collocation method for planar multi-sided physical domains, *Journal of Systems Science and Complexity*, Special issue on *CM 2023*.
- [3] Han Wang, **Chun-Gang Zhu***, Regular control surfaces of toric patch and integer programming, *Applied Mathematics-A Journal of Chinese Universities (Series B)*.

2024年

- [4] Meng-Yun Wang, Ye Ji, **Chun-Gang Zhu***, Degree elevation and knot insertion for generalized Bézier surfaces and their application to isogeometric analysis, *Journal of Computational Mathematics*, 42 (5) (2024) 1197–1225.
- [5] Meng-Yun Wang, Ye Ji, Lin Lan, **Chun-Gang Zhu***, MS-GIFT: Multi-Sided Geometry-Independent Field approximation approach for isogeometric analysis, *Computer-Aided Design*, special issue on *SPM 2024*, 173 (2024) 103731.
- [6] Jingjing Yang, **Chun-Gang Zhu***, An adaptive collocation method on implicit domains using weighted extended THB splines, *Computer Aided Geometric Design*, special issue on *GMP 2024*, 111 (2024) 102297.
- [7] Yi Zhang, Ye Ji, **Chun-Gang Zhu***, Multi-patch parameterization method for isogeometric analysis using singular structure of cross-field, *Computers and Mathematics with Applications*, 162 (2024) 61–78.
- [8] Lin Lan, Ye Ji, Meng-Yun Wang, **Chun-Gang Zhu***, Full-LSPIA: A least-squares progressive-iterative approximation method with optimization of weights and knots for NURBS curves and surfaces, *Computer-Aided Design*, 169 (2024) 103673.
- [9] Lan-Yin Sun*, **Chun-Gang Zhu**, Classification of toric surface patches, in: B. Sheng, L. Bi, J. Kim, N. Magnenat-Thalmann, D. Thalmann (eds), *Advances in Computer Graphics*, CGI 2023, *Lecture Notes in Computer Science*, vol. 14497, Springer, Cham, 2024, pp. 174-185.

2023年

- [10] Shenggang Zhang, **Chungang Zhu***, Qinjiao Gao, Constructing univariate cubic B-spline quasi-interpolants with higher polynomial reproduction degree, *Applicable Analysis*, 102 (7) (2023), 2035–2054.
- [11] Ying-Ying Yu, Ye Ji, **Chun-Gang Zhu***, Sufficient condition for injectivity of NURBS volumes by tangent cones, *Journal of Computational and Applied Mathematics*, 432 (2023), 115303.
- [12] Ye Ji, Meng-Yun Wang, Jing-Gai Li, **Chun-Gang Zhu***, Curvature-based r-adaptive isogeometric analysis with injectivity-preserving multi-sided domain parameterization, *Journal of Systems Science & Complexity*, special issue on *CM 2021*, 36(1) (2023): 53–76.
- [13] Meng Sun, Lin Lan, **Chun-Gang Zhu***, Fengchun Lei, Cubic spline interpolation with optimal boundary condition, *Journal of Computational and Applied Mathematics*, 425 (2023) 115039.
- [14] Pei Zhou, **Chun-Gang Zhu***, Isogeometric collocation method based on residual parameterization of planar physical domain, *Journal of Computational and Applied Mathematics*, 422 (2023) 114889.

2022年

- [15] Ye Ji, Meng-Yun Wang, Yu Wang and **Chun-Gang Zhu***, Curvature-based r-adaptive planar NURBS parameterization method for isogeometric analysis using multi-level approach, *Computer-Aided Design*, special issue on *SPM 2022*, 150 (2022), Article 103305.
- [16] Ye Ji, Meng-Yun Wang, Mao-Dong Pan, Yi Zhang and **Chun-Gang Zhu***, Penalty function-based volumetric parameterization method for isogeometric analysis, *Computer Aided Geometric Design*, special issue on *GMP 2022*, 94(2022), Article 102081.
- [17] Ye Ji, Jing-Gai Li, Ying-Ying Yu, **Chun-Gang Zhu***, h -Refinement method for toric parameterization of planar multi-sided computational domain in isogeometric analysis, *Computer Aided Geometric Design*, 93 (2022), Article 102065.
- [18] Xuanyi Zhao, Ying Wang, Jinggai Li, **Chungang Zhu***, Algorithms for computing the approximation of offsets of toric Bézier curves, *Computational and Applied Mathematics*, 41 (2022), Article 221.
- [19] Xuanyi Zhao, Jinggai Li, Ying Wang, **Chungang Zhu***, Improved algorithms for determining the injectivity of 2D and 3D rational Bézier curves, *Electronic Research Archive*, 30(5) (2022), 1799-1812.
- [20] Shenggang Zhang, **Chungang Zhu***, Qinjiao Gao, Accuracy raising technique for multi-variate spline quasi-interpolants over type-2 triangulations, *Journal of Mathematical Research with Applications*, 42(3) 2022, 318-330.
- [21] 赵轩艺, 贺仕琪, 朱春钢, NURBS曲线的无自交近似等距曲线计算, *计算机辅助设计与图形学学报*, 34 (9) (2022), 1362-1371.
- [22] 兰林, 朱春钢*, 基于 Newton迭代法的最小二乘渐进逼近, *数值计算与计算机应用*, 43(1) (2022), 88-111.
- [23] 王涵, 朱春钢*, 基于伸缩因子的toric-Bézier曲线自由变形, *图学学报*, 纪念苏步青先生诞辰120年专刊, 43(6)(2022) 1070-1079.

2021年

- [24] Ying-Ying Yu, Ye Ji, Jing-Gai Li, **Chun-Gang Zhu***, Conditions for injectivity of toric volumes with arbitrary positive weights, *Computers & Graphics*, special issue on *CAD/Graphics 2021 (Best Paper Award)*, 97 (2021), 88-98.
- [25] Ye Ji, Ying-Ying Yu, Meng-Yun Wang, **Chun-Gang Zhu***, Constructing high-quality planar NURBS parameterization for isogeometric analysis by adjustment control points and weights, *Journal of Computational and Applied Mathematics*, 396 (2021), Article 113615.
- [26] Jing-Gai Li, Ye Ji, **Chun-Gang Zhu***, De Casteljau algorithm and degree elevation of toric surface patches, *Journal of System Sciences and Complexity*, special issue on *CM 2019*, 34(1) (2021): 21–46.
- [27] Xuanyi Zhao, Jinggai Li, Shiqi He, **Chungang Zhu***, Geometric conditions for injectivity of 3D Bezier volumes, *AIMS Mathematics*, 6 (11) (2021), 11974-11988.
- [28] Yan Wu, **Chun-Gang Zhu***, Generating bicubic B-spline surface by six order PDE, *AIMS Mathematics*, 6 (2) (2021): 1677-1694.
- [29] Yan Wu, **Chungang Zhu***, Design of triharmonic triangular Bézier surfaces, *Journal of Mathematical Research with Applications*, 41 (4) (2021), 425–440.

2020年

- [30] Xuefeng Zhu, Ye Ji, **Chungang Zhu***, Ping Hu, Zheng-Dong Ma, Isogeometric analysis for trimmed CAD surfaces using multi-sided toric surface patches, *Computer Aided Geometric Design*, special issue on *Computational Geometric*

Design, 79 (2020), Article 101847.

- [31] Li-na Zhang, Shi-yao Wang*, Jun Zhou, Jian Liu, **Chun-gang Zhu**, 3D grasp saliency analysis via deep shape correspondence, *Computer Aided Geometric Design*, special issue on *Computational Geometric Design*, 81 (2020), Article 101901.
- [32] Yan Wu, **Chun-Gang Zhu***, Construction of triharmonic B ézier surfaces from boundary conditions, *Journal of Computational and Applied Mathematics*, 377 (2020), Article 112906.
- [33] Ying-Ying Yu, Ye Ji, **Chun-Gang Zhu***, An improved algorithm for checking the injectivity of 2D toric surface patches, *Computers and Mathematics with Applications*, 79 (10) (2020), 2973-2986.
- [34] Jing-Gai Li, **Chun-Gang Zhu***, Curve and surface construction based on the generalized toric-Bernstein basis functions, *Open Mathematics (formerly Cent. Euro. J. Math.)*, 18 (2020), 36-56.
- [35] Lan-Yin Sun*, **Chun-Gang Zhu**, Cubic B-spline quasi-interpolation and an application to numerical solution of generalized Burgers-Huxley equation, *Advances in Mechanical Engineering*, 12(11) (2020), 1–8.
- [36] Cai-Yun Li; **Chun-Gang Zhu***, Construction of the spacelike constant angle surface family in Minkowski 3-space, *AIMS Mathematics*, 5(6) (2020): 6341–6354.
- [37] Caiyun Li, **Chungang Zhu***, Designing developable C-B ézier surface with shape parameters, *Mathematics*, 8 (3) (2020), 402.
- [38] 韩志红, 朱春钢*, 能量约束的B ézier曲线构造, *计算机辅助设计与图形学学报*, 32 (2) (2020), 213-221.

2019年

- [39] Hui Wang, **Chun-Gang Zhu***, Cai-Yun Li, The design of B ézier surface through quintic B ézier asymptotic quadrilateral, *Journal of Computational Mathematics*, 37 (5) (2019), 721-738.
- [40] Ying-Ying Yu, Hui Ma and **Chun-Gang Zhu***, Total positivity of a kind of generalized toric-Bernstein basis, *Linear Algebra and Its Applications*, 579 (2019), 449-462.
- [41] Lan-Yin Sun*, **Chun-Gang Zhu**, B ézier surfaces with special coordinate curve nets, *Journal of Mathematical Research with Applications*, 39 (6) (2019), 700–708. Dedicated to the Memory of Professor L. C. HSU on the Occasion of His 100th Birthday
- [42] Sheng-Gang Zhang, **Chun-Gang Zhu***, Qin-Jiao Gao, Numerical solution of high dimensional shock wave equations by bivariate multi-quadric quasi-interpolation, *Mathematics*, 7 (8) (2019), 734.
- [43] Lan-Yin Sun*, **Chun-Gang Zhu**, B-spline solutions of general Euler-Lagrange equations, *Mathematics*, special issue on Discrete and Computational Geometry, 7 (4) (2019), 365.
- [44] 吴金明, 单婷婷, 朱春钢, 连续区间上积分值的MQ拟插值算子, *系统科学与数学*, 39 (12) (2019), 1972-1982.

2018年

- [45] Lanyin Sun, **Chungang Zhu***, Curvature continuity conditions between adjacent toric surface patches, *Computer Graphics Forum*, special issue on Pacific Graphics 2018, 37(7) (2018), 469-477.

- [46] Lan-Yin Sun, **Chun-Gang Zhu**, q-Ferguson curves, *Advances in Mechanical Engineering*, 10(11) (2018) 1–6. doi: 10.1177/1687814018809295.
- [47] Yue Zhang, **Chun-Gang Zhu***, Degenerations of NURBS curves while all of weights approaching infinity, *Japan Journal of Industrial and Applied Mathematics*, 35 (2) (2018), 787–816.
- [48] Yue Zhang, Zhi-Qiang Jia, **Chun-Gang Zhu***, Error bounds for polynomial minimization over the hypercube-simploids, *Pacific Journal of Optimization*, 14 (2) (2018), 193-210.
- [49] Han Wang, **Chun-Gang Zhu***, Regular decomposition in integer programming, *Journal of Mathematical Research with Applications*, 38 (2) (2018), 194-206.
- [50] Mingzeng Liu*, Baojun Li, Qingjie Guo, **Chungang Zhu**, Ping Hu, Yuanhai Shao, Progressive iterative approximation for regularized least square bivariate B-spline surface fitting, *Journal of Computational and Applied Mathematics* 327 (2018) 175–187.
- [51] Cai-Yun Li*, **Chun-Gang Zhu**, G1 continuity of four pieces of developable surfaces with Bezier boundaries, *Journal of Computational and Applied Mathematics*, 329 (2018) 164-172.
- [52] Han Wang, **Chun-Gang Zhu***, Xuan-Yi Zhao, The number of regular control surfaces of toric patches, *Journal of Computational and Applied Mathematics*, 329(2018) 280-293.
- [53] Jinming Wu*, **Chungang Zhu**, The maximum number and its distribution of singular points for parametric piecewise algebraic curves, *Journal of Computational and Applied Mathematics*, 329 (2018) 322–330.
- [54] Jiang Qian*, Fan Wang, **Chungang Zhu**, Scattered data interpolation based upon bivariate recursive polynomials, *Journal of Computational and Applied Mathematics* 329 (2018) 223–243.
- [55] Han Wang, **Chun-Gang Zhu***, The number of regular control curves of NURBS curve, in: *Proceedings of the Computer Graphics International Conference (CGI 2018)*, Bintan, Indonesia, June 11-14, 2018. ISBN 978-1-4503-6401-0, ACM, New York, NY, USA, Pages 41-50.
- [56] 李敬改, 陈秋阳, 韩佳琦, 黄奇立, **朱春钢***, 一类特殊基函数构造的参数曲线, *计算机科学*, 45(3) (2018), 46-50.
- [57] 吴金明*, 单婷婷, **朱春钢**, 连续区间上积分值的二次样条拟插值, *系统科学与数学*, 38 (12) (2018), 1407-1416.
- [58] 高钦姣, 张胜刚*, 谢风媛, **朱春钢**, 基于MQ 拟插值的Sine-Gordon方程自适应保辛数值解法, *计算机辅助几何设计与图形学学报*, 30 (7) (2018), 1224-1229.

2017年

- [59] Hui Wang, **Chun-Gang Zhu***, Cai-Yun Li, Construction of B-spline surface from cubic B-spline asymptotic quadrilateral, *Journal of Advanced Mechanical Design, Systems, and Manufacturing*, special issue on *ACDDE 2016*, 11 (4) (2017), JAMDSM0044.
- [60] 王慧, **朱春钢***, 李彩云, 插值有理Bézier渐近四边形的有理Bézier曲面, *计算机辅助设计与图形学报*, 29(8) (2017), 1497-1504.
- [61] Yue Zhang, **Chun-Gang Zhu***, Qing-Jie Guo, Degenerations of Rational Bézier Surface with Weights in the Form of Exponential Function, *Applied Mathematics-A Journal of Chinese Universities Series B*, 32(2) (2017), 164-182.
- [62] Yue Zhang, **Chun-Gang Zhu***, Qing-Jie Guo, On the limits of NURBS surfaces

with varying weights, *Advances in Mechanical Engineering*, 9(5) (2017), 1–16, <https://doi.org/10.1177/1687814017700547>.

- [63] Xuan-Yi Zhao, **Chun-Gang Zhu***, Han Wang, Geometric conditions of non-self-intersections of NURBS surface, *Applied Mathematics and Computation*, 310 (2017), 89-96.
- [64] Cai-Yun Li, **Chun-Gang Zhu***, The classification of bi-quintic parametric polynomial minimal surfaces, *Applied Mathematics-A Journal of Chinese Universities Series B*, 32(1) (2017), 14-26.
- [65] Hui Wang, **Chungang Zhu***, Caiyun Li, Identification and Hermite interpolation of planar sextic Pythagorean-hodograph curves, *Journal of Mathematical Research with Applications*, 37 (1) (2017), 59-72.
- [66] Rengui Yu *, **Chungang Zhu**, Xianmin Hou, Li Yin, Quasi-interpolation operators of bivariate quintic spline space and their applications, *Mathematical and Computational Applications*, special issue Information and Computational Science, Math. Comput. Appl., 22(1) (2017), 10; doi:10.3390/mca22010010.
- [67] 吴金明, 张雨, 张晓磊, **朱春钢**, 连续区间上积分值的偶次样条插值, *系统科学与数学*, CM2017 专刊, 37 (10) (2017), 2085-2094.

2016年

- [68] Xuan-Yi Zhao, **Chun-Gang Zhu***, Injectivity of NURBS curves, *Journal of Computational and Applied Mathematics*, 302 (2016) 129-138.
- [69] Lan-Yin Sun, **Chun-Gang Zhu***, Approximation of minimal toric Bezier patch, *Advances in Mechanical Engineering*, 8 (6) (2016), 1687814016654667.
- [70] 张跃, **朱春钢***, 郭庆杰, 具有指数函数形式权因子的有理Bezier曲线退化, *计算机辅助设计与图形学学报*, 28(12) (2016), 2067-2074.
- [71] 张 骥, **朱春钢***, 冯仁忠, 刘明明, 张恒洋, 一种改进的B样条翼型参数化方法, *图学学报*, 37 (3) (2016), 342-348.
- [72] 王慧, **朱春钢***, 李彩云, 六次PH曲线G2 Hermite插值, *图学学报*, 37 (2) (2016), 155-165.
- [73] 李彩云*, 项昕, **朱春钢**, 插值曲率线的直纹面可展设计, *中国图像图形学报*, 21(4) (2016), 527-531.
- [74] 张丽娜, 孔雨秋, 李淑华, 刘秀平*, 曹俊杰, **朱春钢**, 基于通勤距离的显著性检测方法, *计算机辅助设计与图形学学报*, 28 (3) (2016), 395-403.

2015年

- [75] **Chun-Gang Zhu***, Bao-Yu Xia, A family of bivariate rational Bernstein operators, *Applied Mathematics and Computation*, 258 (2015), 162-171.
- [76] Cai-Yun Li; **Chun-Gang Zhu***; Ren-Hong Wang, Spacelike developable surfaces through a common line of curvature in Minkowski 3-space, *Journal of Advanced Mechanical Design, Systems and Manufacturing*, special issue on *ACDDE 2014*, 9 (4) (2015), JAMDSM0050. Article ID: 14-0050.
- [77] Xuan-Yi Zhao, **Chun-Gang Zhu***, Injectivity of rational Bezier surfaces, *Computers & Graphics*, special issue on *SMI 2015*, 51 (2015), 17-25.
- [78] Lan-Yin Sun, **Chun-Gang Zhu***, G^1 Continuity between Toric Surface Patches, *Computer Aided Geometric Design*, special issue on *GMP 2015*, 35-36 (2015), 255-267.
- [79] 李彩云, **朱春钢***, 王仁宏, 插值特殊曲线的曲面造型研究进展, *中国科学*:

数学, “庆贺徐利治教授95华诞专辑”, 45 (9) (2015), 1441-1456.

- [80] 尹乐平, 张跃, 朱春钢*, 二次NURBS 曲线的退化曲线, *图学学报*, 36(2) (2015), 186-192.

2014年

- [81] **Chun-Gang Zhu***, Xuan-Yi Zhao, Self-intersections of rational Bezier curves, *Graphical Models*, special issue on *GMP 2014*, 76(5) (2014), 312-320.
- [82] R.H. Wang, Q.J. Guo*, **C.G. Zhu**, C.J. Li, Multivariate spline approximation of the signed distance function, *Journal of Computational and Applied Mathematics*, special issue on *Trends in Computation*, 265 (2014), 276-289.
- [83] 孙兰银, 朱春钢*, 数据拟合的toric曲面方法, *数值计算与计算机应用*, 35(4) (2014), 297-304.
- [84] 韩晓旭, 孙兰银, 朱春钢*, 构造多管道过渡曲面的toric曲面方法, *计算机辅助设计与图形学学报*, 26(10) (2014), 1639-1645.
- [85] 钱江*, 王仁宏, 朱春钢, 王凡, 二元三次样条空间 $S_{3,2}(\Delta_{mn}^{(2)})$ 的样条拟插值, *中国科学: 数学, 几何设计与计算专辑*, 44(7) (2014), 769-778.

2013年

- [86] C.Y. Li, R.H. Wang, **C.G. Zhu***, An approach for designing a developable surface through a given line of curvature, *Computer-Aided Design*, 45 (3) (2013), 621-627.
- [87] C.Y. Li, R.H. Wang, **C.G. Zhu***, A generalization of surface family with common line of curvature, *Applied Mathematics and Computation*, 219 (17) (2013), 9500-9507.
- [88] C.Y. Li, R.H. Wang, **C.G. Zhu***, Designing approximation minimal surfaces with geodesics, *Appl. Math. Model.*, 37 (9) (2013), 6415-6424.
- [89] R.G. Yu*, R.H. Wang, **C.G. Zhu**, A numerical method for solving KdV equation with multilevel B-spline quasi-interpolation, *Applicable Analysis*, 92 (8) pp. 1682 - 1690 .
- [90] R.G. Yu*, R.H. Wang, **C.G. Zhu**, A numerical method for solving KdV equation with blended B-spline quasi-interpolation, *Journal of Information & Computational Science*, 10(16) (2013) 5093-5101.
- [91] 朱春钢*, 杨莉, 赵轩艺, 夏宝玉, 有理Bézier曲线的自交点, *计算机辅助设计与图形学学报*, 25 (5) (2013), 738-744.

2012年

- [92] **C.G. Zhu ***, Degenerations of toric ideals and toric varieties, *Journal of Mathematical Analysis and Applications*, 386(2) (2012), 613-618 .
- [93] **C.G. Zhu***, R.H. Wang, Algebra-geometry of piecewise algebraic varieties, *Acta Mathematica Sinica, English Series*, 28(10) (2012) ,1973-1980.
- [94] **C.G. Zhu ***, Some properties of the quasi-cross-cut partition and the dimension of bivariate continuous spline space, *Ars Combinatoria*, 105 (2012), 355-360
- [95] H.Y. Liu, **C.G. Zhu***, C.Y. Li, Constructing N-sided toric surface patches from boundary curves, *J. Information and Comput. Sci.*, 9(3) (2012), 737-743.

2011年

- [96] **C.G. Zhu ***, R. H. Wang, The correspondence between multivariate spline ideals and piecewise algebraic varieties, *Journal of Computational and Applied*

Mathematics, 236 (5) (2011), 793-800.

- [97] Luis David Garcia-Puente, Frank Sottile*, **Chungang Zhu**, Toric degenerations of Bezier patches, *ACM Transaction on Graphics*, 30(5) (2011), Article 110, 10 pages. Presented at **SIGGRAPH 2013**
- [98] C.Y. Li, R.H. Wang, **C.G. Zhu***, Parametric representation of a surface pencil with a common spatial line of curvature, *Computer-Aided Design*, 43(9) (2011), 1110-1117.
- [99] C.Y. Li, R.H. Wang, **C.G. Zhu***, Design and G1 connection of developable surfaces through Bezier geodesics, *Applied Mathematics and Computation*, 218(7) (2011), 3199-3208.
- [100] B. Guo, R.H. Wang, **C.G. Zhu***, A note on multi-step difference scheme, *Journal of Computational and Applied Mathematics*, 236 (5) (2011), 647-652.
- [101] R.H. Wang, M. Li*, **C.G. Zhu***, Some research on the relation among CSC method, box-spline and hyperplane arrangement, *Journal of Computational and Applied Mathematics*, 236 (5) (2011), 775-781.
- [102] K. Qu*, R.H. Wang, **C.G. Zhu**, Fitting C^1 surfaces to scattered data with $S^1_2(\Delta^2_{m,n})$, *Journal of Computational Mathematics*, 29(4) (2011), 396-414.
- [103] Z.W. Jiang*, R.H. Wang, **C.G. Zhu**, Min Xu, High accuracy multiquadric quasi-interpolation, *Appl. Math. Modeling*, 35 (5) (2011), 2185-2195.
- [104] R.G. Yu*, R.H. Wang, **C.G. Zhu**, Curve interpolation with length constraint in a discrete manner, *J. Information and Comput. Sci.*, 8(6) (2011), 859-868.
- [105] M.L Xiao, R.H. Wang, **C.G. Zhu***, Applying multiquadric quasi-interpolation to solve KdV equation, *Journal of Mathematical Research & Exposition*, 31(2) (2011), 191-201.

2010年

- [106] **C.G. Zhu***, R.H. Wang, Geometric interpolants with different degrees of smoothness, *International Journal of Computer Mathematics*, 87(9) (2010), 1907-1917.
- [107] **C.G. Zhu***, W.S. Kang, Numerical solution of Burgers-Fisher equation by cubic B-spline quasi-interpolation, *Applied Mathematics and Computation*, 216 (9) (2010) 2679-2686.
- [108] C.Y. Li, **C.G. Zhu***, A multilevel univariate cubic spline quasi-interpolation and application to numerical integration, *Mathematical Methods in the Applied Sciences*, 33(13) (2010), 1578-1586.
- [109] **C.G. Zhu***, W.S. Kang, Applying cubic B-spline quasi-interpolation to solve Hyperbolic Conservation Laws, *University POLITEHNICA of Bucharest Scientific Bulletin Series D: Mechanical Engineering*, 72(4) (2010), 49-58.
- [110] 李彩云, 朱春钢*, 王仁宏, 参数曲线的分段近似隐式化, *高校应用数学学报*, 25(2)(2010), 202-210.

2009年

- [111] **C.G. Zhu***, R.H. Wang, Numerical solution of Burgers' equation by cubic B-spline quasi-interpolation, *Applied Mathematics and Computation*, 208(1) (2009), 260-272.
- [112] 朱春钢*, 王仁宏, 拟贯穿剖分上分片代数曲线的Nöther 型定理, *中国科学A辑: 数学*, 39(1) (2009), 27-33. 英文版: **C.G. Zhu***, R.H. Wang, Nöther-type theorem of piecewise algebraic curves on quasi-cross-cut partition, *Science in*

China Series A: Mathematics, 52(4) (2009), 701-708.

- [113] 朱春钢*, 王仁宏, 拟贯穿剖分上二元样条的Lagrange插值, *数学年刊A辑*, 30A(2)(2009), 221-230. 英文版C.G. Zhu*, R.H. Wang, Lagrange interpolation by bivariate splines over quasi-cross-cut partitions, translation in *Chinese J. Contemp. Math.* 30(2) (2009), 175-184.
- [114] 朱春钢*, 李彩云, 王仁宏, 异度隐函数样条曲线曲面, *计算机辅助设计与图形学学报*, 21(7) (2009), 930-935.

2008年

- [115] 王仁宏、李崇君、朱春钢, 《*计算几何教程*》, 科学计算及其软件教学丛书, 北京: 科学出版社, 2008.
- [116] C.G. Zhu*, R.H. Wang, X. Shi, F. Liu, Functional splines with different degrees of smoothness and their applications, *Computer-Aided Design*, 40(5) (2008), 616-624.
- [117] C.G. Zhu*, R.H. Wang, Some researches on real piecewise algebraic curves, *Journal of Mathematical Research & Exposition*, 28(2) (2008), 287-296.

2007年

- [118] 朱春钢*, 王仁宏, 三角剖分上分片代数曲线的Nöther 型定理, *中国科学 A 辑: 数学*, 37(4) (2007), 425-430. 英文版: C.G. Zhu*, R.H. Wang, Nöther-type theorem of piecewise algebraic curves on triangulation, *Science in China Series A: Mathematics*, 50(9) (2007), 1227-1232.
- [119] C.G. Zhu*, R.H. Wang, Least-squares fitting of piecewise algebraic curves, *Mathematical Problems in Engineering*, 2007 (2007), Article ID 78702, 11 pages.

2006年

- [120] C.G. Zhu*, R.H. Wang, Lagrange interpolation by bivariate splines on cross-cut partitions, *Journal of Computational and Applied Mathematics*, 195 (1-2) (2006), 326-340.
- [121] C.G. Zhu*, R.H. Wang, Nöther-type theorem and its application, *Journal of Information and Computational Science*, 3 (2) (2006), 365-372.
- [122] 朱春钢, 二元线性样条函数插值, *应用数学*, 19(3) (2006), 575-579.

2005年

- [123] C.G. Zhu*, R.H. Wang, Piecewise semialgebraic sets, *Journal of Computational Mathematics*, 23 (5) (2005), 503-512.
- [124] C.G. Zhu*, R.H. Wang, Geometric Hermite interpolation for space curves by B-spline, *软件学报*, 16 (4) (2005), 634-642.

2004年

- [125] R.H. Wang, C.G. Zhu*, Cayley-Bacharach theorem of piecewise algebraic curves, *Journal of Computational and Applied Mathematics*, 163 (1) (2004), 269-276.
- [126] R.H. Wang, C.G. Zhu*, Nöther-type theorem of piecewise algebraic curves, *Progress in Natural Science*, 14 (4) (2004), 309-313.
- [127] R.H. Wang, C.G. Zhu*, Piecewise algebraic varieties, *Progress in Natural Science*, 14 (7) (2004), 568-572.
- [128] C.G. Zhu*, R.H. Wang, Real piecewise algebraic curves, *Journal of*

Information and Computational Science, 1 (1) (2004),169-173.

2003年

- [129] 王仁宏, 朱春钢, 实分片代数曲线的拓扑结构, *计算数学*, 25(4) (2003), 505-512; 英文版: *Chinese Journal of Numerical Mathematics and Applications*, 26 (1) (2004), 89-100.