# 录用待发表

- [1] 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*.
- [2] Han Wang, **Chun-Gang Zhu\***, Regular control surfaces of toric patch and integer programming, *Applied Mathematics-A Journal of Chinese Universities (Series B)*.
- [3] Meng-Yun Wang, Ye Ji, Chun-Gang Zhu\*, Degree elevation and knot insertion for generalized B ézier surfaces and their application to isogeometric analysis, *Journal of Computational Mathematics*, doi:10.4208/jcm.2301-m2022-0116.

# 2024年 (1篇SCI)

[4] 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.

#### 2023年

- [5] 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.
- [6] 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.
- [7] Ye Ji, Meng-Yun Wang, Jing-Gai Li, **Chun-Gang Zhu\***, Curvature-based radaptive isogeometric analysis with injectivity-preserving multi-sided domain parameterization, *Journal of Systems Science & Complexity*, special issue on *CM* 2021, 36(1) (2023): 53–76.
- [8] 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.
- [9] 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

[10] 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.

- [11] 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.
- [12] 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.
- [13] Xuanyi Zhao, Ying Wang, Jinggai Li, **Chungang Zhu\***, Algorithms for computing the approximation of offsets of toric B ézier curves, *Computational and Applied Mathematics*, 41 (2022), Article 221.
- [14] Xuanyi Zhao, Jinggai Li, Ying Wang, **Chungang Zhu\***, Improved algorithms for determining the injectivity of 2D and 3D rational B ézier curves, *Electronic Research Archive*, 30(5) (2022), 1799-1812.
- [15] 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.
- [16] 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.
- [17] 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.
- [18] 王涵, **朱春钢\***, 基于伸缩因子的toric-B ézier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.

- [19] 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.
- [20] 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.
- [21] 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.
- [22] Xuanyi Zhao, Jinggai Li, Shiqi He, Chungang Zhu\*, Geometric conditions for injectivity of 3D Bezier volumes, AIMS Mathematics, 6 (11) (2021), 11974-11988.
- [23] Yan Wu, **Chun-Gang Zhu\***, Generating bicubic B-spline surface by six order PDE, *AIMS Mathematics*, 6 (2) (2021): 1677-1694.

[24] Yan Wu, **Chungang Zhu\***, Design of triharmonic triangular B & ier surfaces, **Journal of Mathematical Research with Applications**, 41 (4) (2021), 425–440.

## 2020年

- [25] 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.
- [26] 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.
- [27] Yan Wu, **Chun-Gang Zhu\***, Construction of triharmonic B ézier surfaces from boundary conditions, *Journal of Computational and Applied Mathematics*, 377 (2020), Article 112906.
- [28] 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.
- [29] 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.
- [30] 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.
- [31] 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.
- [32] Caiyun Li, **Chungang Zhu\***, Designing developable C-B ézier surface with shape parameters, *Mathematics*, 8 (3) (2020), 402.
- [33] 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.

- [34] 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.
- [35] 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.
- [36] 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
- [37] 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.
- [38] 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.
- [39] 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.

- [40] 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.
- [41] Lan-Yin Sun, Chun-Gang Zhu, q-Ferguson curves, *Advances in Mechanical Engineering*, 10(11) (2018) 1–6. doi: 10.1177/1687814018809295.
- [42] 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.
- [43] 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.
- [44] Han Wang, **Chun-Gang Zhu\***, Regular decomposition in integer programming, *Journal of Mathematical Research with Applications*, 38 (2) (2018), 194-206.
- [45] 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.
- [46] 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.
- [47] 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.
- [48] 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.
- [49] Jiang Qian\*, Fan Wang, **Chungang Zhu**, Scattered data interpolation based upon bivariate recursive polynomials, *Journal of Computational and Applied*

- Mathematics 329 (2018) 223-243.
- [50] 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.
- [51] 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.
- [52] 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.
- [53] 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.

- [54] 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.
- [55] 王慧, **朱春钢**\*, 李彩云, 插值有理B ézier渐近四边形的有理B ézier曲面, *计 算机辅助设计与图形学报*, 29(8) (2017), 1497-1504.
- [56] Yue Zhang, **Chun-Gang Zhu\***, Qing-Jie Guo, Degenerations of Rational B & Exiconstruction with Weights in the Form of Exponential Function, *Applied Mathematics-A Journal of Chinese Universities Series B*, 32(2) (2017), 164-182.
- [57] 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.
- [58] 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.
- [59] 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.
- [60] Hui Wang, **Chungang Zhu\***, Caiyun Li, Identication and Hermite interpolation of planar sextic Pythagorean-hodograph curves, *Journal of Mathematical Research with Applications*, 37 (1) (2017), 59-72.
- [61] 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.

[62] 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

- [63] Xuan-Yi Zhao, Chun-Gang Zhu\*, Injectivity of NURBS curves, *Journal of Computational and Applied Mathematics*, 302 (2016) 129-138.
- [64] Lan-Yin Sun, Chun-Gang Zhu\*, Approximation of minimal toric Bezier patch, *Advances in Mechanical Engineering*, 8 (6) (2016), 1687814016654667.
- [65] 张跃, **朱春钢**\*, 郭庆杰, 具有指数函数形式权因子的有理**B** ézier曲线退化, *计算机辅助设计与图形学学报*, 28(12) (2016), 2067-2074。
- [66] 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.
- [67] 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.
- [68] 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.
- [69] 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

- [70] **Chun-Gang Zhu\***, Bao-Yu Xia, A family of bivariate rational Bernstein operators, *Applied Mathematics and Computation*, 258 (2015), 162-171.
- [71] Cai-Yun Li; **Chun-Gang Zhu\***; Ren-Hong Wang, Spacelike developable surfaces through a common line of curvature in Minkowsk i 3-space, *Journal of Advanced Mechanical Design, Systems and Manufacturing*, special issue on *ACDDE 2014*, 9 (4) (2015), JAMDSM0050. Article ID: 14-0050.
- [72] Xuan-Yi Zhao, **Chun-Gang Zhu**\*, Injectivity of rational Bezier surfaces, *Computers & Graphics*, special issue on *SMI 2015*, 51 (2015), 17-25.
- [73] 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.
- [74] 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.
- [75] 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

[76] Chun-Gang Zhu\*, Xuan-Yi Zhao, Self-intersections of rational Bezier curves,

- *Graphical Models*, special issue on *GMP 2014*, 76(5) (2014), 312-320.
- [77] 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.
- [78] 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.
- [79] 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.
- [80] 钱江\*, 王仁宏, **朱春钢**, 王凡,二元三次样条空间 \$S\_{3}^{1,2}(\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.

- [81] 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.
- [82] 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.
- [83] C.Y. Li, R.H. Wang, C.G. Zhu\*, Designing approximation minimal surfaces with geodesics, *Appl. Math. Model.*, 37 (9) (2013), 6415-6424.
- [84] 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.
- [85] 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.
- [86] **朱春钢**\*, 杨莉, 赵轩艺, 夏宝玉, 有理B & ier曲线的自交点, *计算机辅助设计与图形学学报*, 25 (5) (2013), 738-744.

- [87] C.G. Zhu \*, Degenerations of toric ideals and toric varieties, *Journal of Mathematical Analysis and Applications*, 386(2) (2012), 613-618.
- [88] C.G. Zhu\*, R.H. Wang, Algebra-geometry of piecewise algebraic varieties, *Acta Mathematica Sinica, English Series*, 28(10) (2012) ,1973-1980.
- [89] **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
- [90] 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.

- [91] **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.
- [92] 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**
- [93] 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.
- [94] 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.
- [95] 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.
- [96] 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.
- [97] 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.
- [98] Z.W. Jiang\*, R.H. Wang, C.G. Zhu, Min Xu, High accuracy multiquadric quasi-interpolation, *Appl. Math. Modeling*, 35 (5) (2011), 2185-2195.
- [99] 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.
- [100] 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.

- [101] **C.G. Zhu\***, R.H. Wang, Geometric interpolants with different degrees of smoothness, *International Journal of Computer Mathematics*, 87(9) (2010), 1907–1917.
- [102] **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.
- [103] 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.
- [104] **C.G. Zhu\***, W.S. Kang, Appling 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.
- [105] 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.

- [106] **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.
- [107] 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, Nöthertype theorem of piecewise algebraic curves on quasi-cross-cut partition, *Science in China Series A: Mathematics*, 52(4) (2009), 701-708.
- [108] 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.
- [109] **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

- [110] 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.
- [111] **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.
- [112] 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

- [113] 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, Nöthertype theorem of piecewise algebraic curves on triangulation, *Science in China Series A: Mathematics*, 50(9) (2007), 1227–1232.
- [114] **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

[115] **C.G. Zhu\***, R.H. Wang, Lagrange interpolation by bivariate splines on crosscut partitions, *Journal of Computational and Applied Mathematics*, 195 (1-2) (2006), 326-340.

- [116] C.G. Zhu\*, R.H. Wang, Nöther-type theorem and its application, *Journal of Information and Computational Science*, 3 (2) (2006), 365-372.
- [117] 朱春钢, 二元线性样条函数插值, *应用数学*, 19(3) (2006), 575-579.

- [118] C.G. Zhu\*, R.H. Wang, Piecewise semialgebraic sets, *Journal of Computational Mathematics*, 23 (5) (2005), 503-512.
- [119] **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

- [120] R.H. Wang, **C.G. Zhu\***, Cayley-Bacharach theorem of piecewise algebraic curves, *Journal of Computational and Applied Mathematics*, 163 (1) (2004), 269-276.
- [121] R.H. Wang, C.G. Zhu\*, Nöther-type theorem of piecewise algebraic curves, *Progress in Natural Science*, 14 (4) (2004), 309-313.
- [122] R.H. Wang, C.G. Zhu\*, Piecewise algebraic varieties, *Progress in Natural Science*, 14 (7) (2004), 568-572.
- [123] C.G. Zhu\*, R.H. Wang, Real piecewise algebraic curves, *Journal of Information and Computational Science*, 1 (1) (2004),169-173.

# 2003年

[124] 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.