COMPUTER AIDED GEOMETRIC DESIGN REFERENCE

BYUNG-GOOK LEE

References

[1] William A. Denker, Gary J. Herron, Generalizing rational degree elevation, Computer Aided Geometric Design, (97) Vol14
[2] Wayne Liu, A simple, efficient degree raising algorithm for B-spline curves, Computer Aided Geometric Design, (97) Vol14
[3] Gerald Seemann, Approximating a helix segment with a rational Bézier curve, Computer Aided Geometric Design, (97) Vol14
[4] Hans J. Wolters, Gerald Farin, Geometric curve approximation, Computer Aided Geometric Design, (97) Vol14
[5] A. Nasri, Curve interpolation in recursively generated B-spline surfaces over arbitrary topology, Computer Aided Geometric Design, (97) Vol14
[6] Jiwen Zhang, two different forms of C-B-splines, Computer Aided Geometric Design, (97) Vol14
[7] Giulio Casciola, A recurrence relation for rational B-splines, Computer Aided Geometric Design, (97) Vol14
[8] Jiwen Zhang, C-curves:An extension of cubic curves, Computer Aided Geometric Design, (96) Vol13
[9] Les Piegle and Wayne Tiller, Algorithm for approximate NURBS skinning, computer-aided design, (96) Vol28 No9
[10] John A. Roulier, Bruce Piper, Prescribing the length of rational Bézier curves, Computer Aided Geometric Design, (96) Vol13
[11] Klaus Spitzmuller, Partial derivatives of Bézier surfaces, computer-aided design, (96) Vol28 No1
[12] Alberto Paoluzzi, Bilinear matrix forms for the area of polygons, computer-aided design, (96) Vol28 No4
[13] In-Kwon Lee, Myung-Soo Kim and Gershon Elber, Planar curve offset based on circle approximation, computer-aided design, (96) Vol28 No8
[14] L.Piegl and W.Tiller, Algorithm for degree reduction and B-spline curves, computer-aided design, (95) Vol27 No2
[15] Przemyslaw Bogacki, Stanley E Weinstein and Yuesheng Xu, Degree reduction of Bézier curves by uniform approximation with endpoint interpolation, computer-aided design, (95) Vol27 No9
[16] M.Eck, Least squares degree reduction of Bezier curves, computer-aided design, (95) Vol27 No11
[17] A.Rababah, High order approximation method for curves, Computer Aided Geometric Design, (95)
[18] P.Bogacki, S.E.Weinstein and Y.Xu, Degree reduction of Bezier curves by uniform approximation with endpoint interpolation, CAD, (95) Vol27 No9
[19] T.W.Sederberg, Point and tangent computation of tensor product rational Bezier surfaces, CAGD, (95)
[20] Barry Joe, Wenping Wang and Fuhua Cheng, Reduced-knot NURBS representations of rational G^1 composite Bézier curves, computer-aided design, (94) Vol26 No5
[21] P.V.Sanker, M.J.Silbermann, and L.A.Ferrari, Curve and surface generation and refinement based on a high speed derivative algorithm, CVGIP, (94) Vol56
[22] S.Lodha and J.Warren, Degree reduction of Bezier simplexes, computer-aided design, (94) Vol26 No10

[23] R.Goldman and J.Warren. An extension of Chaiken's algorithm to B-spline curves with knots in geometric progression, CVGIP, (93) Vol55 No1
[24] T.W.Sederberg and G.Z.Chang, Best liner common divisors for approximate degree reduction, computer-aided design, (93) Vol25 No3
[25] Pascal Laurent-Gengoux and Mounib Mekhilef, Optimization of a NURBS representation, computer-aided design, (93) Vol25 No11
[26] D S Meek and D J Walton, Approximating quadratic NURBS curves by arc splines, computer-aided design, (93) Vol25 No6
[27] M.Eck, Degree reduction of Bezier curves, Aomputer Aided Design Design, (93)
[28] L.Yong-Kui, Algorithm for circle approximation and generation, computer-aided design, (93) Vol25 No3
[29] M.J.Pratt, R.J.Goult and L.Ye, On rational parametric curve approximation, CAGD, (93)
[30] W. Tiller, Knot-removal algorithms for NURBS curves and surfaces, computer aided design, (92) Vol24 No8
[31] T.W.Sederberg and R.T.Farouki, Approximation by Interval Bezier Curves, IEEE Computer Graphics & Applications, (92)
[32] M.Sarfraz, A rational cubic spline alternative to the NURBS, Compuy. & Graphics, (92) Vol 16 No1
[33] G.Farin, From Conics to NURBS:A tutorial and survey, IEEE Computer Graphics & Applications, (92)
[34] B.Pham and H.Schroder, Parallel algorithms and a systolic device for cubic B-spline curve and surface generation, Comput.&Graphics,(91) Vol 15 No13
[35] M.G.Cox and P.M.Harris, The Approximation of a Composite Bezier Cubic Curve by a Composite Bezier Quadratic Curve, IMA J. of Num. Anal., (91)
[36] S.Shetty and P.R.White, Curvature-continuous extensions for rational B-spline curves and surfaces, CAD,(91) Vol23 No7
[37] H.Hagen, G.P.Bonneau, Variational design of smooth rational Bezier curves, CAGD, (91)G.Farin, G.Rein, N.Sapidis and A.J.Eorsey, Fairing cubic C.Potier,
[38] M.B.Guermah and C.Vercken, Curve fitting using NURBS, Curves and Surfaces, (91)
[39] M.J.Silbermann,S.Y.Wang and L.A.Ferrari, Efficient Computation of Multiple Knots Nonuniform Spline Functions, Curves and Surfaces, (91)
[40] L.Piegl, On NURBS:A Survey, IEEE Computer Graphics & Application, (91)
[41] H.Prautzsch and B.Piper, A fast algorithm to raise the degree of spline curves, Computer Aided Geometric Design, (91)
[42] T.W.Sederberg and M.Kakimoto, Approximating Rational Curves USing Polynomial Curves, SIAM, (91)
[43] G.V.Milovanovic and LJ.M.Kocic, Integral Spline Operators in CAGD, (91)
[44] L.Alt, Parametrization for Data Approximation, Curves and Surfaces, (91)
[45] JSM.Vergeest, CAD surface data exchange using STEP, computer-aided design, (91) Vol23 No4
[46] B.K.Choi, W.S.Yoo and C.S.Lee, Matrix representaion for NURB curves and surfaces, computer-aided design, (90) Vol22 No4
[47] J.Hoschek and F.J.Schneider, Spline conversion for trimmed rational Bezier and B-spline surfaces, computer-aided design, (90) Vol22 No9
[48] N Sapidis and G Farin, Automatic fairing algorithm for B-spline curves, computer-aided design, (90) Vol22 No2
[49] A.R.Forrest, Interactive interpolation and approximation by Bezier polynomials, computer-aided design, (90) Vol22 No9
[50] J.A.Gregory and M.Sarfraz, A rational cubic spline with tension, CAGD, (90)
[51] L.Piegl, Modifying the shape of rational B-spline. Part 1:curves, computer-aided design, (89) Vol21 No8
[52] L.Piegl, Modifying the shape of rational B-spline. Part 2:surfaces, computer-aided design, (89) Vol21 No9
[53] conversion of rational splines, CAGD, (89)
[54] M.Daniel and J.C.Daubisse, The numerical problem of using Bezier curves and surfaces in the power basis, CAGD, (89)
[55] M.A.Watkins and A.J.Worsey, Degree reduction of Bezier curves, computer-aided design, (88) Vol20 No7

[56] L.Piegl and W.Tiller, constructions using rational B-splines, computer-aided design, (87) Vol19 No9
[57] B-spline curves, CAGD, (87)
[58] W.Boehm, Rational geometric splines, CAGD, (87)
[59] L.Piegl, A geometric investigation of the rational Bezier scheme of computer aided design, Computers in Industry, (86)
[60] L.Piegl, Representation of rational Bezier curves and surfaces by recursive algorithms, computer-aided design, (86) Vol18 No7
[61] L.Piegl, Curve fitting algorithm for rough cutting, computer-aided design, (86) Vol18 No2
[62] R.A.Devore and Z.Yan, Error analysis for piecewise quadratic curve fitting algorithms, Computer Aided Geometric Design, (86)
[63] E.Cohen and L.L.Schumaker, Rates of convergence of control polgons, Computer Aided Geometric Design, (85)
[64] L.Dannenberg and H.Nowacki, Approximate conversion of surface represenattions with polynomial bases, CAGD, (85)
[65] E.T.Y.Lee, Some remarks concerning B-splines, Computer Aided Geometric Design, (85)
[66] H.Prautzsch, Degree elevation of B-spline curves, Computer Aided Geometric Design, (84)
[67] H.Prautzsch, A short proof of the Oslo algorithm, Computer Aided Geometric Design, (84)
[68] D.T.Lee and F.P.Preparata, Computational Geometry-A Survey, IEEE, (84)
[69] C.S.Petersen, Adaptive contouring of three dimensional surfaces, Computer Aided Geometric Design, (84)
[70] W.Tiller, Rational B-Splines for Curve and Surface Representation, IEEE Computer Graphics & Appl., (83)
[71] G.Farin, Algorithm for rational Bezier curves, computer-aided design, (83) Vol15 No2
[72] T.Pavlidis, Curve Fitting with Conic Splines, ACM Transactions on Graphics, (83) Vol2 No1
[73] J.M.Lane and R.F.Riesenfeld, A Theoretical development for the computer generation and display of piecewise polynomial surfaces,
[74] IEEE Transactions on Pattern Analysis and Machine Intelligence, (80), Vol. PAMI-2, NO.1
[75] A.R.Forrest, The twisted cubic curve:a computer-aided geometric design approach, computer-aided design, (80) Vol12 No4
[76] P.Sablonniere, Spline and Bezier polygons associated with a polynomial spline curve, computer-aided design, (78) Vol10 No4
[77] F.Yamaguchi, A new curve fitting method using a CRT computer display, Computer Graphics and Image Processing, (78)
[78] C.M.Lee and F.D.K.Roberts, A Comparison of Algorithms for Rational Approximation, Mathematics of Computation, (73) Vol27 No 121
[79] B.K.Swartz and R.S.Varga, Error Bounds for Splines and L-Spline Interpolation, Journal of Approximation Theory, (72) N.M.Patrikalakis, Approximate
[80] P.J.Barry and R.N.Goldman, Factored knot insertion, Comput. Aided Design, 20 (88), pp. 65-88
[81] P.J.Barry and R.N.Goldman, Recursive proof of Boehm's knot insertion technique, Comput. Aided Design, 20 (88), pp. 181-182
[82] P.J.Barry and R.F.Zhu, Another knot insertion algorithm for B-spline curves, Comput. Aided Geom. Design, 9 (92), pp. 175-183
[83] W.Boehm, Inserting new knots into B-spline curves, Comput. Aided Design, 12 (80), pp. 199-201
[84] W.Boehm, On the efficiency of knot insertion algorithms, Comput. Aided Geom. Design, 2 (85), pp. 141-143
[85] W.Boehm and H.Prautzsch, The insertion algorithm, Comput. Aided Design, 17 (85), pp. 58-59
[86] R.N.Goldman, Blossoming and knot insertion algorithms for B-spline curves, Comput. Aided Geom. Design, 7 (90), pp. 69-81

Department of Applied Mathematics
Dongseo University
Pusan, 617–716
Korea