Bezier Curver - Amooth Curver - U. perspective

Spline

Proposionation (www.)

Solution found

Solution for the proposition (www.)

Solution for the proposition (www.)

Solution for the proposition (www.) (about to influent) (a) Voy to inflement etc. Duadratic Desgier Course Parametre ag. Soppore C(u) in the pt. betado -di ((u)=(1-u) lotul,

 $((u) = (1-u)[(1-u)l_0 + ul_1] + u[(1-u)l_1 + ul_2]$ = (1-u)2Po + 2eu(1-u)P, + u2P2 Alending function repetition for Bezier Curve or Combine Guardian. Suppose are have not control points

Suppose for (Ak. Jk. Zk)-theo the positional - Ponticu Meuf rector Plu) where 20 < u < 1 sh given by $P(u) = \sum_{k=0}^{\infty} P_k \frac{BEZ}{kn} \frac{(u)!}{Blandingfn}$ $BEZ_{k,n} = ((m,k)) \frac{u}{u} \frac{k(1-u)^m - k}{u}$ where ((m,k) = 1 x(u) = Z xx B&Zkm (u) y(21) = 2 1/2 / 1) Construct the Bezier Consie of order 3 with four restrices of control polygon Po (0,0), P1 (1,2); P2(3,2)
and P3(2,0). Generale at least 5 points on 24 - 16 (10)) som (10 - (1- m) Port 11 F.

B-Spline (wive Control pt - Devide the degree - Dinad. Segment -> boly. degree control 1) It is made of not control points & order of curve 2) It has local control over the curve. Costral Portional Service Stand Service Service Service Service Stand Service 3> It is wed to draw open and closed conve 4) It given un polynomial of degree K-1 P(m) 2 x2 (25K5 mH) (5) It has m-k+2 regoments. Po Py Po Py Let K=3 6-3+2 P(4) = 22

P(4) = 22

O-1 1-2, 2-3, 3-4,

Ontrol points without changing that degree of the polynomial. P(u) = 22 B(000)-(1.941, 1.56).

P(u) = Z Bix (u) Px K= Responsible jos Segment m=6, K=3 Gi (PX YR ZX) x(u)= \(\frac{\pi}{2} \) \(\begin{array}{c} \text{Bix} \left(\frac{\pi}{2} \right) \times \kappa \\ 2 \left(\frac{\pi}{2} \right) \times \kappa \\ 2 \left(\frac{\pi}{2} \right) \\ \times \times \frac{\pi}{2} \right(\frac{\pi}{2} \right) \\ \times \frac{\pi}{2} \right) \\ \t 11=0->5 (81-k+2) $B_{ik}(u) = \frac{(u-t_i)B_{ik-1}(u)}{t_{i+k-1}-t_i} + \frac{(t_{i+k-1}-u)B_{i+1,K-1}}{t_{i+k}-t_{i+1}}$ t: Knot rector (Bet of Subinturnel end pta) $t_i \rightarrow (0 \leq i \leq n + R)$ Av Ai Ai Latr Carre Value

No PI P2 - Pm - Pm - 1 Cubic Opline 1(x)= (x;+1-x;)3M;+8(x-xi)M;+1