

LATERAL ALG. FOR SORTING


MNOHOUHOLNÍKY \rightarrow VÍZUAM Mid

③ BODKA EDUVOGÉHO POLYÉONU

$S = \{s_1, s_2, \dots, s_n\}$ Mid

STRIPES \rightarrow TRIANGULÁRIA Mid

STRIPES [KLAPOTY] \rightarrow CH(S)

③ 

DELAUNAY-TRIANG

- DT \rightarrow ENTOURAGE // LOCUS APPROACH
- 300 - 0 DE GRANT \sim EAR CUTTING / ITERATION
- ZUVETANIM
- FLOOD FILL
- RANDOM + TEST
- SORT, PO UAKRATICH, SPEEDIT.
- HRT ma Σ HSA hria NP-HED NO-TTOM
- KRAT MATSI

Mnohouholniky, avizo Bozek, ako plochu, ako triangulovat... // Tabuľa UPG5-LS24.

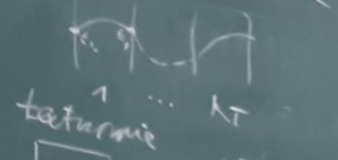
UPG-6

— explicite $y = f(x)$

— impliatne $f(x, y, z, \dots) = 0$

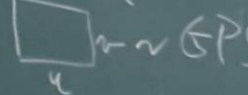
— parametricky body, melting, mesh...

WINNER eg. Bézier-spline



1 ... n

katarmie



u $\sim \sim$ GPS

MID

I. MATICOVO M, H^1

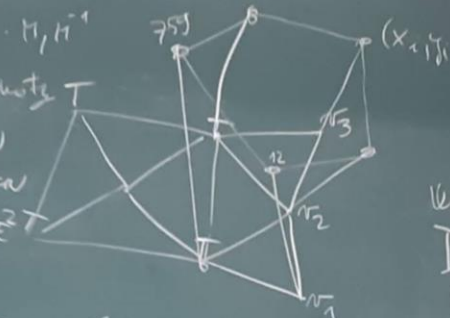
II. KOHERENTNE h h T

III. de CASTELJEAU u u u

IV. $S = \{s_1, \dots, s_n\}$ $s_i \in \mathbb{R}^2$

$T(S)$

STRIPES + COMPLEXITY (pôd opásci / char na plochu)

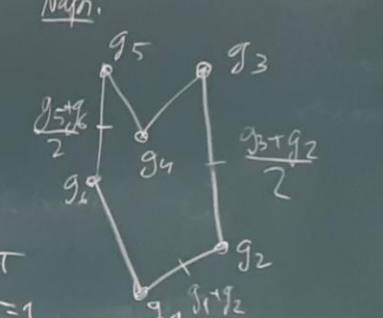


height (x_i, y_i, h_i)

WINNER

DT $(x, y) \in T$

[Belaunay, 1922] $i=1$




DUALITA GRAFOV TEORETICKA

[Voronoi 1908]

SUSEDNOST V.O.

HRANA D.T.

OBSERVED N	1	10	100	...
t	t_1	t_{10}	t_{100}	



Voronoi, Delaunay, stripes. Pred Mid. // Tabuľa UPG6-LS24.

UPG-7 & MID

ALCO 3D MODEL? 2D GKS 80's 3D PHIGS INTERACTION 90's

- VOXELIZÁCIA
- IRR, OG STREET VIEW
- B-REP
- F-REP
- CSG - stream

PARAM. mesh TIN TRIANGULAR / IRREGULAR NET

POINT ANALYZER

UP, I, O, S, PHERE

SCENE GRAPH OPT OMNIPERSPECTIVE

MAX MIN [REACHEN?Z] "A" "D"

CH. SPHERIC

AD III. OBDUČNÍK JE AJ ŠTÍPEK.

40' EŠTE

AKO, MOŽEHO PÍSAŤ / KRESLIŤ AJ FAREBNE

9⁵³ 9⁵⁸

GEOM. MODEL (x,y,z,t) (r,g,b,x)

ANIM. VR.

DESIGN

MODEL

DATA

TEXTURING

Ako 3D modelovať? Fotorealizmus. Mid. // Tabuľa UPG7-LS24.

UPG-8/15 PHOTOREALISM-2

ALCO 3D? 22/40 DES ZAHRAČENÉ

AKO PREDSTAVIŤ 3D? OBRAZKY

IDEA - ZPESO J. KUCERA M. FIALKA et al.

DATA - MIEG-4

MODEL - DEKLARATÍVNE

PROCEDURÁLNE

JAZYKY

VISUAL COMPUTING

VRML X3D (CASCADA 3D)

VEKTOR (VSEDKA)

BODY (OBJEKTY)

2D GKS VSD

3D PHIGS OpenGL, OpenCL

WWW CONSORTIUM

SCHOOLS 2D

"BAZAAR"

FLOSS

SOIT

"CATHEDRAL"

LINUX IBM MS BLENDER ...

DIEN SURCE

ZEPHO IN EUROS/\$

PROJEKTA FAREBNÁ

(x,y,z,t)

(x-a, y-a, z-a, 0)

1 1 0 1

100W ~ 10⁴² FOTÓN/5

10⁷

IBL [DEBEVEC, 2000]

IBR

POINT 1 = (x,y,z,t)

POINT 2 = (a,b,c,1)

Ako 3D reprezentovať? Turtle & Eagle, shape grammars... Fotorealizmus 2. ZPGSO. // Tabuľa UPG8-LS24.

