Frankerde autukorde

find out clustering representations & Dendeogram using single, complete and tomage link himself function in

sursidial dusteling technique?

point	2-coordinate	y co-ordinal			
۱۹	0.04005	0.5306			
P2	0.2148	0.3854			
P3	0.3457	0.3156			
Pu	0.2652	9.1872			
P5	0.0789	0.4139			
ρ6	0.4548	0.3022			

X-4 wordenater.

Distance matrix:

Pı	P2-	P3	Pu	Ps	Pe
0,00	0.2357	0.2118	0.3988	0-344	0.1344
o. 2357	0.000	0.1483	0.2042		0.2540
	0.3	0.000	0.1613	0.2843	0.1100
0.2118	0.1483		n:000	0.4932	0.2416
0.3688	0.2042	0.1713	0	0.000	0.3921
The Later	011288	0.2843	0.2932	**	
1	0.2540	0.1100	0.2216	0.3971	0.000

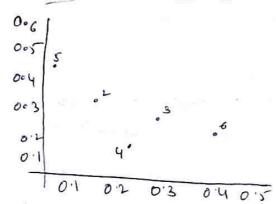
By Slyse unk :-

Jor Single und hielarchial deutering, the proximity of his dusters is minimum of the distance between any two points in

² different cluster.

The single this technique is good for non elliptical objusts, but sensitive to noise q outliers

· Applicating struste link technique to one enample data set of S'inpokul Set of six a dimensional polivits.

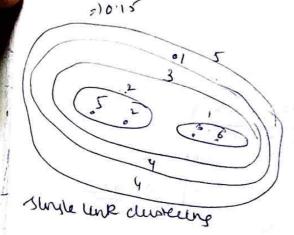


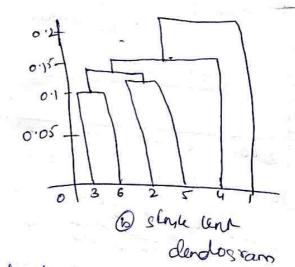
-) From table 1 , cor can observe distance between P24P6 65

expuserted as distance between no dustus.

distance between claster (3,64 & (2,54 is slower by dist (63,64, 62,54)) & min (dist (3,2), dist 16,2), dist 18,5% olist (6,5))

=) mln (0.15, 10.25, 0.28, 0.39)





complete unk

of his clearer is defined as the manimum of the different clusters believed any his points in two different clusters

- I complete link is less susceptible to notse a outlier, but it can vieak large clusters of the favour globular shapes
- olata set of six points. Her
- I 3,6 y b need with buy instead of List ordely thing

our (63,64, 644) = mar (0.15, 0.11) 5 D' 22 an ((316) 1821 (4) = nau (des+ (2, L), des (6, L), des (3, T), man 10.15+0.25/0.2810.39) :0'39 art (831641 814) = man (dest (311), dest (6,1)) : May 10.11.0.13) =0.73 0.4 0) O'L 3 0 1 complete and classicity complete une dendeogram Average Unt: Below figure shares usualts that applying the Storep treat approach to sample doct of sine points. jux alculate tele distance between some clusters. appointents =1 proximiles (Ci, Cs) = Exect proximila(4,4) dust (836144, 214) = (0.22 +0.37 +0.13)/(3x1) du (dir bidiy): (0.14+0.34) [(1x1)=0.19 dut (836,44, 81,59): (015 +0.28+0.25+0.39+0.20+029) (3x) \$0.26 the, Beause dist (& 3,6,44, 2,54) ls smaller then dest ((3,6,44,5,6,4) and dest ((454, 8,4) clearter (316,4 & and LLITY are meyed as 0.21 15 15 6.3153 the bueth stage. 0. 25 -0.186US 6.15 0-1 0.05 .3 . 6 1 group Avege dirdeogram 9,000 Aveaec duriner

- Averen version of hierarchical Musterlan, the pronuncting of hodusters is defined as the average paratise proximity cerning all pales of points in the different claster. Provenelly provenety (Ci, Ci) of cluster (i and (i) colice are of size m; and m; respectively is Reoxements (Ci, Cj) = & ec, Proximity (1,4)

mixmi