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	$Q_2$
	D)
	K-mean algorithm
	§2, 3, 6, 8, 9, 12, 15, 18, 22°
Wi	Taylor A A A A A A A A A A A A A A A A A A A
	Break into 3 clusters (Randomly assign data to 3 clusters)
(h2)3	and calculate much value.
- P/	you a knowled traing and to Attachora - 7 1/2 1/04
U	$0 k_1 = 2,8,15$ mean = 8-3
	$r_2 = 3,9,18$ mean = 10
- Y	k3 = 6,12,22 mean = $13.3$
	LOSOTO NO WORLD OF TOTALED TO bring to flow of the
lasts	2) Re-arigh with thousand but a committee
. 70	$K_1 = 2, 3, 6, 8, 9$ mean = 5.6
(000)	K2=1 Mean=0 Mean=0
an)	k3 = 12, 15, 18, 22  moan = $16.75$
	3) ROMERO
	3) Reasign $k1 = 3, 6, 8, 9$ Mean $= 6.5$
,	167 = 3,6,6,7 mean = 2
4	$K_3 = 12, 15, 18, 22$ mean $= 16.75$
4	
bi	(4) K1=6,89 = mean = 7.6
	$4 \text{ K}_{1}=6, 8,9 = \text{ mean} = 7.6 $ $1 \text{ K}_{2}=2,3 = \text{ mean} = 2.5$
Jour S	k3=12,15,18,22 mean=16.75
	a tree to the later than Emply of the
and str	$5 \text{ K}_1 = 6,8,9 \text{ mean}=7.6 \text{ k}_3 = 12,15,18,22$
الله	k2 = 2,3 Mean = 2.5 mean = 16.75
	vaivore with It is reason to the to tro
43 4700	Curter = 36, 8, 93 Curter 2= {2,33 cluster 3= {12,15,18,22}
	Curster = 26, 8, 97 Custer 2= 52,37 cluster 3= 512, 15, 18, 227

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	(92)
	F
	Spatial custoring Technique: CLARANS.
	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
120	David upon RAN domized bearch conductions
16	2 CLARANS like PAM starts with a randomly selected
	101 of k-modiate or tempored instead of examing
	all mirs, for ewanisher at the current state.
	all pairs, for swapping at the current state.  3) If check at not of the "maxneighbour" number of
	pairs for swapping and if a pair with negative to ust is found, it update the mediate as a local optimum and restarts with a new randomly selected
	cost is found; it update the mediate as a total
	of Hours and restarts with a new randomly selected
	mediod, set to search for another total optimum.
	optimal mediod sots are determined, and return the
	best among these.
	(5) Algorithm (Steps)
	i) Input parameters numbocal and mannerghbour'
	Initialize i to 1 and minust to a large number
	(i) let current to an arbitary note in Gn, k
	iii) set; to 1
	14) consider a random neighborurs of whent and
	(a) the wit differential of the two nodes  (b) If s has a lower cost, set current to s and
	go to step 3
al	vi) ofherwise increment j by 1 If j < man neighbour vii) otherwise when j > man neighbour, compare the
	(ort of wheat with minust - If the bening
	is us than min cost, ut min cost of
81 71	CHILLI = 20,8 97 CHILLE 12,37 CHILLE 3= 519

