16 OCT

REVIEW: UNSUPERVISED LEARNING

NAUT: SET OF PTS

INAUT: SET OF PTS

I SEED " CENTROIDS

NUMBER K

ASSIGNS PTS TO NEAREST CENT.

RECOMPUTE CENTROID

> LOOP UNTIL CONVG (NO REASSIGN) MIN SSE, ETC.)

ADV!

FAST
LOT OF EVD. OF PRACT USE

PISAP:

SENS TO OUTLIERS

SENS TO INIT SEEDS TO

LOCAL OPTIME
USER MUST SEL K

## HIGRARCH CLUSTERING

CLUSTER CONTAINE INSIDE



(=) GENERALL nº RUNTINE

THANDLES CLUSTERS THAT

DATA STANTARIZATION

NUMERIC ATTRIBUTES

RANGE (min, max)

Z-SCRE (J, M)

NICRVAL VS, RATTO

## COM M FINT (NG COMPONENT - BASED

MOWLARITY MAXIMIZATION

GREGPY LOUVAIN - FASTER,

> MAXIMIZES M BETTER

LABEL PROPAGATN

-VERY FAST

- LABEL PROP LIKE

IN OHFS. - PEGENGR. SOLN.

$$P(D, | I) = 0.8$$

$$P(D, | I) = 0.5$$

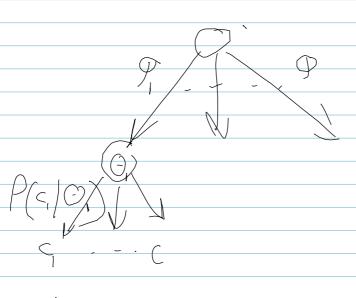
$$P(D, | I) = 0.5$$

$$P(D, | I) = 0.1$$

$$(0.2 \circ 0.5)$$

$$P(D, | I) = 0$$

$$Pr(di) = \sum_{j=1}^{|C|} P(c|O)P(d|c,C)$$



P(w/c, 0)

